

VBrick Windows Media IP Receiver

WM IP Receiver Admin Guide

v5.1.0 Model 8000-0113-0002 v4.2.1 Model 8000-0113-0000/0001



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About VBrick Systems

Founded in 1997, VBrick Systems, an ISO 9001 certified vendor, is a privately held company that has enjoyed rapid growth by helping our customers successfully introduce mission critical video applications across their enterprise networks. Since our founding, VBrick has been setting the standard for quality, performance and innovation in the delivery of live and stored video over IP networks—LANs, WANs and the Internet. With thousands of video appliances installed world-wide, VBrick is the recognized leader in reliable, high-performance, easy-to-use networked video solutions.

VBrick is an active participant in the development of industry standards and continues to play an influential role in the Internet Streaming Media Alliance (ISMA), the MPEG Industry Forum, and Internet2. In 1998 VBrick invented and shipped the world's first MPEG Video Network Appliance designed to provide affordable DVDquality video across the network. Since then, VBrick's video solutions have grown to include Video on Demand, Management, Security and Access Control, Scheduling, and Rich Media Integration. VBrick solutions are successfully supporting a broad variety of applications including distance learning and training, conferencing and remote office communications, security, process monitoring, traffic monitoring, business and news feeds to the desktop, webcasting, corporate communications, collaboration, command and control, and telemedicine. VBrick serves customers in education, government, healthcare, and financial services markets among others.

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Windows Media IP Receiver Admin Guide

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VBrick's WM IP Receiver is similar to a conventional set top box but is significantly more stable, rugged, and reliable. It is designed for 24x7 operation, and built for enterprise networks that require a high degree of stability, security, and scalability. The WM IP Receiver meets the demanding requirements of VBrick's EtherneTV Media Distribution System. The WM IPR plays Windows Media streams from VBrick WM appliances and Windows Media servers. The WM IPR is also a fully-featured VBrick EtherneTV client. This means that in addition to the ability to deliver video, the WM IPR will eventually provide scheduling, access logging, and device control from the Portal Server.



Organization

Hardware Setup	provides an overview of the IP Receiver and explains how to connect, configure, and login. The hardware setup procedure varies by model number.
Software Configuration	explains all IPR configuration options including Start mode, network configuration, and security options.
Status, Maintenance & Help	explains how to check system information, reboot or shutdown the IPR, and launch a software upgrade.
Local Mode Configuration	explains how to configure the IPR for Local mode and how to create and upload customized pages.
Using the IPR	explains how to use the IPR in different modes (Fullscreen, Portal Server, and Local) and how to use the IPR Remote Control device.
Legacy Models	explains the power states and remote control unit on the legacy 8000-0113-0000 device.

Getting Help

If you need help, or more information about any topic, use the online help system. The online help is cross-referenced and searchable and can usually find the information in a few seconds. Use the tree controls in the left pane to open documents and the up and down arrows to page through them. Use the **Search** box to find specific information. Simply enter one or more words in the box and press Enter. The search results will return pages that have all of the words you entered—highlighted in yellow (Internet Explorer only). The **Search** box is not case-sensitive and does not recognize articles (a, an, the), operators (+ and –), or quotation marks. You can narrow the search by *adding* words.

If you can't find the information you need from the online help, or from your certified VBrick reseller, you can contact VBrick <u>Support Services</u> on the web. Support Services can

usually answer your technical questions in 24 business hours or less. Also note that our publications team is committed to accurate and reliable documentation and we appreciate your feedback. If you find errors or omissions in any of our documents, please send e-mail to documentation@vbrick.com and let us know. For more information about any VBrick products, all of our product documentation is available on our documentation website at www.vbrick.com/documentation

Font Conventions

Arial bold is used to describe dialog boxes and menu choices, for example: Start > All Programs > VBrick

Courier fixed-width font is used for scripts, code examples, or keyboard commands.

Courier bold fixed-width font is used for user input in scripts, code examples, or keyboard commands.

This bold black font is used to strongly emphasize important words or phrases.

Folder names and user examples in text are displayed in this sans serif font.

User input in text is displayed in this bold sans serif font.

Italics are used in text to emphasize specific words or phrases.

Related Documents

For more information about using and configuring the WM IPR with the Portal Server, see the *EtherneTV Portal Admin Guide*. This document is available on the VBrick EtherneTV page at <u>www.vbrick.com/documentation</u>

Printer-Friendly

WM IP Receiver Admin Guide

WM IP Receiver Release Notes

- ▼ To save or print a PDF document:
- 1. Click once to open the PDF document in Acrobat Reader.
- 2. To save or print a PDF document, right-click and select Save Target As or Print Target.



Chapter 1

Hardware Setup

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Product Overview

VBrick's EtherneTV Media Distribution System provides the ability to view live and stored WM (Windows Media) streams directly on a television or monitor by using the ETV IP Receiver. The IP Receiver is integrated with the EtherneTV Portal Server and the ETV video-on-demand (VOD) servers to enable viewing of stored and live WM streams. The IP Receiver can also be deployed as a standalone decoder without the need for a Portal Server.

As explained on the following pages, the IPR can be configured to operate in one of three modes: **Portal Server, Local** (standalone), **Local-Fullscreen** (standalone). When the installation includes a Portal Server, the IPR is directed to the Portal Server for user control—the graphics and user interface reside on the ETV Portal Server. When the IPR is deployed independently of the Portal Server, it comes equipped (in **Local** mode) with a user interface and internal graphics. The IP Receiver can be configured using a standard web browser.

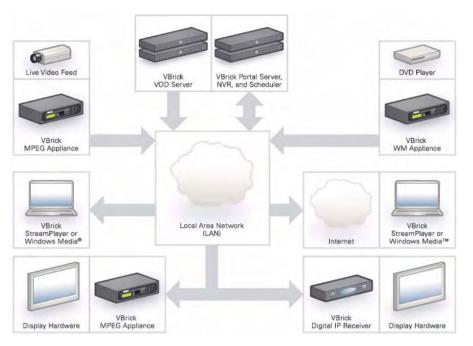


Figure 1. Ethernet-TV Media Distribution System

WM IP Receiver Models

The WM IP Receiver is a state-of-the-art decoder for WM streams originating from a VBrick WM appliance or a Windows Media streaming server, or for streams hosted by a VBrick EtherneTV Portal Server. This manual describes how to setup and use two slightly different WM IP Receivers. (Note that models 8000-0113-0000 and 8000-0113-0001 are nearly identical and use the same setup procedure.) The two models have different connectors and the hardware setup is different, but as explained on the following pages, the software configuration and user functionality are the same. To determine the IPR model number, reboot the IPR and note the model number (and software version) when the splash screen with the VBrick logo is displayed. The software version is also displayed on the Status page.

Model Number	IPR Model †	Description	Version Required
8000-0113-0002	WM IPR 2	Black enclosure. See Figure 2 on page 3.	5.1.x.x or higher
8000-0113-0001 8000-0113-0000	WM IPR 1 WM IPR 0	White enclosure. See Figure 5 on page 6. Hardware setup for both of these devices is identical. The main difference is that the 8000-0113- 0000 model has a non-RoHS- compliant remote control unit.	4.x.x.x or lower

Table 1. WM IP Receiver Hardware Models

t When adding IP Receivers to the Portal Server configuration, select an IPR Model from the Portal Server dropdown menu that matches the model designation shown here.

When you power on the hardware (or reboot) a splash page with the VBrick logo is briefly displayed. This image is configurable (see Splash Screen Image on page 23) and the data superimposed on the page is important when configuring or upgrading the device.

Table 2. Splash Page Data

Model	Splash Page Data
Model 8000-0113-0002	Model IP Address Version
Model 8000-0113-0001 Model 8000-0113-0000	Model Serial Number Date Version

Getting Started

The following pages explain how to perform initial setup and configuration. These steps include hardware setup, network configuration, login, and start mode. For Step 1, use the setup procedure that matches your hardware model. Steps 2-4 are the same for both models.

▼	To perform initial setup and configuration:
1. Se	etup Hardware
2. C	onfigure Network Parameters
3. L	ogin to IWS1

3 9 1

1. Setup Hardware

As noted there are two different WM IPR models and the hardware setup is different for each model. Step 1 explains how to setup the hardware. *Use the setup procedure that matches your model*. Steps 2–4 are the same for both models. To determine the model number, reboot the IPR and note the model number when the splash screen is displayed.

Setup Model 8000-0113-0002	2.	 •	•	 •	•	 •	•	•	 •	•	•	 •		•	 •	•	•	•	•	•		 • •	•	•	•	 . 3	ì
Setup Model 8000-0113-0001									 •													 		•		 . 6)

Important Use common sense when installing the IPR. Do not expose the unit to direct sunlight, high humidity or wet conditions. **Do not block the air vents or impede the airflow in any way.** And once installed, do not place anything on top of unit.

Setup Model 8000-0113-0002



Figure 2. WM IPR (8000-0113-0002) - Top View

Table 3.	Hardware	Speci	fications
----------	----------	-------	-----------

LAN	RTL8101L, 10/100 Base T, RJ-45 1 port
A/V Output	DVI, VGA, Composite, Component, Audio R/L, S/PDIF (N/A)
USB	2 ports
Front Panel	Status LED display: Power, LANInfrared receiverPower Switch
Rear Panel	DVI, VGA, Composite, Component, Audio R/L, S/PDIF (N/A)

Table 4. Functional Specifications

Resolutions	Composite: NTSC (720x480), PAL (720x576) DVI/VGA: 800x600, 1024x768, 1280x1024
Protocols	Multicast, HTTP.
Video Sources	VBrick WM Appliance, Windows Media Server.
Decode Rate	56Kbps-4 Mbps.

Video System Type	NTSC or PAL.
EthernetTV Support	Compatible with VBrick's ETV Portal Server (v4.0 or higher).
IR Remote	All standard functions.
Configurable Modes	Local (Static Program Guide).Local-Fullscreen (play configured program).Portal Server.
Outputs	Composite, Component, VGA, DVI, RCA audio.
Network	Ethernet, DHCP, Manual IP configuration, IGMP v3.
Management	Remote Management via web browser.Web Service.
Security	Login required for user interface change or system changes.

Front Panel Controls

The IPR front panel has a power control and a LAN indicator.



Figure 3. WM IPR – Front Panel Controls

Power	Press once to power the unit on or off.
LAN	Illuminates blue when connected to the network.

Install Cables and Connectors

The WM IP Receiver is shipped with all the cables and connectors you need to install the device. The WM IPR is also shipped with the latest IPR software already installed. (In the unlikely event you need to reinstall (or upgrade) the software, contact VBrick <u>Support</u> <u>Services</u>. Connect the audio, video, and Ethernet cables to the connectors shown in Figure 4. The WM IPR includes the following components:

- WM IP Receiver
- Remote Control with 2 AA Batteries
- Power supply and cable
- Composite connector cable (red, green, blue)
- Component connector cable (red, white, yellow)
- Network cable (RJ-45)
- ▼ To connect the IPR to composite video:
- 1. Using the provided component cable, connect the IPR video out to a TV monitor using the yellow video connector.
- 2. Using the provided component cable, connect the IPR audio out to a TV monitor using the corresponding red and white audio connectors.
- 3. Connect the IP Receiver to your Ethernet network, using the Ethernet port.

- 4. Connect a USB keyboard and mouse to the USB ports and install two AA batteries in the remote control.
- Connect the IPR power cord to a powerstrip and power on the IPR using the Power button on the front panel. (Hold down Delete key on keyboard during power up to set the date/time on the BIOS menu. See <u>Set Date and Time</u> below.)



Figure 4. WM IPR – Rear Panel Connectors

Power Plug	Connects to power cord.				
VGA	Connect to a standard TV or a projector with a VGA port.				
DVI	Use for high definition devices such as flat panel screens or digital projectors. Note: When connecting a monitor or a set top box to the DVI port on the encoder, you must connect both ends of the cable (to the monitor or set top box and to the encoder) <u>before</u> powering on the encoder.				
Component	Component video out.				
Composite	Composite video out.				
SPDIF	N/A.				
Ethernet 10/100	Connect to local area network.				
Audio Out	Audio out left and right.				
USB Ports (2) Connect USB mouse and/or keyboard.					

Set Date and Time

Some IPR features (for example automatic reboot and log file timestamps) must have the date and time set in order to work properly. The date and time can only be set from the BIOS menu at startup.

- ▼ To set date and time:
- 1. Attach a USB keyboard to the IPR.
- 2. Power up the device and tap the **Delete** key (on keyboard) while machine is booting until the BIOS menu appears.
- 3. Set the appropriate Date/Time for your region. Use the +/- keys to change the values, the Tab key to change fields, and Up/Down arrows to change parameters.
- 4. When done, save changes, then confirm and exit.

Setup Model 8000-0113-0001

Use this hardware setup procedure for models 8000-0113-0000 and 8000-0113-001.



Figure 5. WM IPR (8000-0113-0001) – Top View

Table 5. Hardware Specifications

Model	WM IPR
Processor	Intel® Pentium-M ® Processor 1.4 GHz
Chipset	Intel 854 chipset with 3D graphics
Memory	Standard: On Board DDR333 128 MB
Mass Storage	64 MB DOM
Input Device	IR Remote Control
Front Panel	LEDs: (left to right) Power, Standby, Activity, Link
Rear Panel	 10/100 Ethernet port One RCA jack for composite video output Two RCA jacks for stereo audio output (right/left) S-Video output connector Coaxial and Optical S/PDIF out (not used) Two USB 2.0 connectors VGA
Weight	Less than 4.3 kg (9.4 lbs)
Dimension	308 (L) x 223 (D) x 60 (H) mm
Power	AC 100~240V/47-63 Hz, 80W
Operating System	Windows CE 5.0

Table 6. Functional Specifications

Resolutions	Composite/S-Video: NTSC (720x480), PAL (720x576) VGA: 800x600, 1024x768, 1280x720, 1920x1080.
Protocols	Multicast, HTTP, MMS
Video Sources	VBrick WM Appliance, Windows Media Server.
Decode Rate	56Kbps-4 Mbps.
Video System Type	NTSC or PAL.

EthernetTV Support	Compatible with VBrick's ETV Portal Server (v4.1 or higher).
IR Remote	All standard functions.
Configurable Modes	Local (Static Program Guide).Local-Fullscreen (play configured program).Portal Server.
Outputs	Composite, VGA, RCA audio.
Network	Ethernet, DHCP, Manual IP configuration, IGMP v3.
Management	Remote Management via web browser.Web Service.Telnet (future release).
Security	Login required for user interface change or system changes.

Power Indicators

The IPR has two "standby" modes as explained below. In *hard* standby, the **Standby** LED is on; in *soft* standby, the **Standby** LED is off. If you are having problems and the **Standby** LED is on, reboot the IPR by pressing the (upper) triangular **Power** button on the front panel or the red (unlabeled) button on the IR remote control. Note that in addition to the two standby states there are also two independent IR remote buttons that transition into or out of these states.



Figure 6. WM IPR – Front Panel LEDs

Table 7. Front Panel Indicators

Power	Solid red when unit is powered on.
Standby	Solid red when unit is in hard standby (see Table 9).
Activity	Blinks red when there is network traffic.
Link	Solid red (dim) when there is an Ethernet connection.

Table 8. Triangular Power and Reset Buttons

Upper button	Power – Press once to power-on unit; press and hold for five seconds to power-off. See Table 9 <u>IPR Power States</u> for more information.	
Lower button	Reset –. Press once to reset the unit.	

Note Table 9 below explains power state behavior for Model 8000-0113-0001. If your model is 8000-0113-0000, see "Legacy Models" for more information. To determine the model number, reboot the IPR and note the Model number on the splash screen with the VBrick logo.

Off	No AC power applied. The unit is completely off.
Hard Standby	AC power applied but IPR turned off. The IPR is in this state after AC power is initially applied or after holding the front panel power button down for a few seconds until the Standby LED comes on.
Soft Standby	AC power applied but there is no video or network connectivity. You get into this state by clicking the Shutdown button in IWS or pressing the Standby button on the IR remote. You can transition to On by pressing the Standby button on the IR remote.
On	 The unit is operational. You get into this state by: Plugging in AC power. The unit boots up. Briefly pressing the front panel when in hard standby (i.e. when the Standby LED is lit). The unit boots. Pressing the power button on the IR remote when in hard standby. The unit boots. Pressing the Standby button on the IR remote when in soft standby. The unit comes back immediately.

Table 9. IPR Power States

Table 10. IPR Transition States

Press this button	To transition to	
Front panel power button	When in hard standby, boots up. When in soft standby or On , hold for several seconds to go into hard standby.	
Red "power" button on IR remote	When in hard standby, this boots the IPR. In all other cases it has no effect.	
Standby button on IR remote	When the IPR is On , this puts box in soft standby. When the IPR is in soft standby, it comes on immediately. When the IPR is in hard standby, there is no effect.	
Shutdown button in IWS	When the IPR is On , this puts the box in soft standby.	

Install Cables and Connectors

The WM IP Receiver is shipped with all the cables and connectors you need to install the device. The WM IPR is also shipped with the latest IPR software already installed. (In the unlikely event you need to reinstall (or upgrade) the software, contact VBrick <u>Support</u>. <u>Services</u>. Connect the audio, video, and Ethernet cables to the connectors shown in Figure 7. The WM IPR includes the following components:

- WM IP Receiver
- Remote Control with 2 AA Batteries
- Power To determine the IPR model number, reboot the IPR and note the model number when the splash screen with the VBrick logo is displayed.cable
- RCA connector

- \checkmark To connect the IPR:
- 1. Using the provided RCA cable, connect the IPR video out to a TV monitor using the yellow video connector.
- 2. Using the provided RCA cable, connect the IPR audio out to a TV monitor using the corresponding red and white audio connectors.
- 3. Using *customer-provided* cables, connect the IP Receiver to your Ethernet network, using the LAN port.
- 4. Connect a USB keyboard and mouse to the USB ports and install two AA batteries in the remote control.
- Connect the IPR power cord to a powerstrip and power on the IPR using the triangular Power button on the front panel. (Press F2 during power up to set the date/time on the BIOS menu. See <u>Set Date and Time</u> below.)



Figure 7. WM IPR – Rear Panel Connectors

Composite	Composite video out.
S-Video	Connect to standard TV.
Audio Out	Audio out left and right.
LAN	Connect to local area network.
USB Ports (2)	Connect USB mouse and/or keyboard.
VGA	Connect to a standard TV or a projector with a VGA port.
Power Plug	Connects to power cord.

Set Date and Time

Some IPR features (for example automatic reboot and log file timestamps) must have the date and time set in order to work properly. The date and time can only be set from the BIOS menu at startup.

- ▼ To set date and time:
- 1. Attach a USB keyboard to the IPR and power up the device.
- 2. When the black and white startup screen appears, press and hold **F2** until the BIOS menu appears.
- 3. Set the appropriate Date/Time for your region. Use the +/- keys to change the values, the Tab key to change fields, and Up/Down arrows to change parameters.
- 4. When done, press F10 to save changes, then confirm and exit.

2. Configure Network Parameters

The IP Receiver is configured with DHCP (Dynamic Host Configuration Protocol) enabled and will automatically retrieve an IP address from a DHCP server if present. If a DHCP server is not available, you can configure the IP Receiver with a static IP address. The following steps explain how to login to the IPR the first time only. After this initial configuration, you can login to the IPR using IWS.

- **Note** By default, DHCP is used to retrieve a dynamic IP address for the IPR. If you are not using a DHCP server, you must configure the IPR to use a static IP address as explained below.
- ▼ To configure network parameters:
- 1. Connect the TV, cables, keyboard, and mouse as explained above and power on the IPR. Wait for the box to completely power up before continuing.
- 2. When the Login page is displayed, log in to the Integrated Web Server (IWS) using the default username (admin) and password (admin).
- 3. Navigate to the <u>Network Configuration</u> page which shows the **IP Address**, **Hostname**, and other network configuration parameters. Use this page to record the DHCP IP address for future use or to set a different IP address (see <u>Assigning an IP Address</u> below). If leaving the IPR in DHCP mode, be sure to record the IP address provided by the DHCP server for future access to IWS from a PC.
- 4. When done, click **Apply** and then **Logout**.
- 5. Remove the USB keyboard and mouse. The next time you will login using the IPR's Integrated Web Server (IWS).
- **Note** VBrick recommends using the initial management pages only to record (or set) the IP address using a keyboard and a mouse. Do not change other IPR parameters until you logout, remove the keyboard and mouse, and login to the IWS management pages over a network connection.

Assigning an IP Address

- ▼ To assign a static IP address (optional):
- 1. Go to the **Network** configuration page.
- 2. Change DHCP Enable to Static and enter a valid IP Address.
- 3. Set other network parameters (**Subnet Mask**, **Gateway**, **Domain Name Server** etc.) as necessary. Contact a system administrator for the parameters to use on your network.
- 4. When done, click **Apply** and then **Logout**. If you do not logout, you will be unable to configure the IPR from a PC. Either logout from the console or wait (15 minutes) for the session to expire in order to manage the IPR over the network.

Changing the TV/Monitor Format

IP receivers are shipped with the monitor format set to NTSC. To change this setting to PAL (or to set other parameters), you may need to login to the device using the IP address configured by DHCP. The easiest way to get (or set) the IP address is to install the VBDirectory management program from the Product CD that was included with the IPR. VBDirectory discovers and displays all VBrick devices on the network and their corresponding IP addresses.

- ▼ To change the TV/Monitor format:
- 1. Find the IPR MAC address on the label (marked MAC) attached to the *bottom* of the unit.
- 2. Install and run VBDirectory from the Product CD.

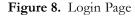
- 3. Find and select the MAC address of the WM IPR and click **Connect to VBrick**. Then login with the default username (admin) and password (admin)
- 4. After logging in, you can change the TV/Monitor Format setting on the Configuration > Decoder page.

3. Login to IWS

You access the IP Receiver by typing its IP address in the **Address** field of a web browser such as Internet Explorer or Firefox. You login to the IPR's Integrated Web Server (IWS) using the default username and password (you can change these on the <u>Security</u> <u>Configuration</u> page). IWS is a web management application used to set or change configuration settings (see <u>Using IWS</u> on page 13 for more about IWS).

- ▼ To login to the IP Receiver:
- 1. Type the IP address of the IPR in a browser, for example http://<IPR_IPAddress>
- 2. Enter the Username and Password and click Login. This displays the Administrator Page. Use this page to access all system configuration parameters.

V	Brick WM IPR Administrator Page
	The IWS allows the user to configure and manage VBrick Systems IP receivers. To log into the IWS, please enter your username and password, then click on the Log In button.
	Login Username: admin Password: •••••
	Login



User name	Case-sensitive username. Default = admin (all privileges) or public (read-only).
Password	Case-sensitive password. Default = admin (all privileges) or public (read-only).

Note If you have problems logging in because of a misconfigured IPR or lost IP address, you can still launch IWS by pressing **Ctrl-Alt-F1** from a USB keyboard directly attached to the IPR. See <u>Logging In</u> on page 14 for more information.

4. Select a Start Mode

The next step is to choose a **Start** mode from among the options explained below. The **Start** mode determines how the IPR will behave in your network environment when it's powered on. A network administrator will generally determine the **Start** mode based on the functional requirements at your site. Note that if you are using a TV monitor to configure IWS, as soon as you select a **Start** mode and press **Apply**, IWS closes and the TV switches to the selected mode.

- ▼ To set the Start mode:
- 1. After logging in as explained above, the General Configuration page (Figure 9) opens.
- 2. Select a **Start** Mode from among the three choices listed below. See <u>General</u> <u>Configuration</u> on page 15 for more information about these options.

Local-Fullscreen	The WM IPR can operate in a fullscreen mode. One channel is displayed and this stream uses the entire screen of the attached monitor. Table 11 below shows the URL syntax for Local-Fullscreen.
Portal Server	When installed with an ETV Portal Server, the features and options of the VBrick WM IPR are controlled through the VBrick Portal Server. See the <i>Portal Server Admin Guide</i> for more information.
Local	In Local mode, the IPR will retrieve and render the user interface web page from the configured local path. This is typically located on the IPR's file system. The program guide on the viewer web page will include the streams defined for Local mode on the IWS configuration page. See <u>Local Mode Configuration</u> on page 29 for more information.

3. Press Apply to exit IWS and open the IPR interface in the selected mode.

 Table 11.
 Local-Fullscreen URL Syntax

Stream Type	URL Syntax
Multicast WM	Multicast IP address of VBrick WM Appliance. On the WM Appliance, go to Configuration: Encoder > Multicast and use the Multicast URL, for example: http:// <ip_address>/vbs1multi.nsc</ip_address>
Unicast WM HTTP (Live)	HTTP URL of VBrick WM Appliance. On the WM Appliance, go to Configuration: Encoder > Server and use the HTTP URL , for example: http:// <ip_address>:8080/vbrickvideo1/group1 If your WM Appliance is configured to serve multiple bit rates (MBR) you must configure the WM IPR with a group-specific URL, for example: http://<ip_address>:8080/vbrickvideo1/group1</ip_address></ip_address>
Unicast or HTTP (VOD)	Depends on VOD server. The complete path including HTTP URL and publishing point, for example: http:// <ip_address>/VBP/MYWMVideos/myVideo.wmv</ip_address>

Chapter 2

Software Configuration

Topics in this section

Using IWS
General Configuration
Network Configuration
SAP Configuration
Decoder Configuration
Security Configuration
Upgrade Configuration
Miscellaneous Configuration

Using IWS

The following page is displayed when you power on the IPR and login to IWS. Use this page to configure all IPR parameters. Use the navigation panel in the upper left part of the page, and if necessary, select from the configuration options on the left. *Note that only one admin user can be logged in at any time*. A second admin user attempting to login will receive an error message.

	VBrick WM IPR Administrator Page
Configuration	Status Maintenance Help Logout
General Network SAP	General Configuration
Decoder Security	Start Mode C Local-Fullscreen http://172.22.173.10:8080/vbrickvideo1
Upgrade Misc	C Portal Server http://172.22.115.1
	Local (leave blank for default)
	Local-Mode URLs Ch# Title URL Info 1 Live Science http://172.22.173.10.8080/vbrickvideo1 × 2 Stored VOD C http://172.22.173.10.8080/vbrickvideo1 × 4 Live Exterior (http://172.22.173.10.8080/vbrickvideo1 × 5 Stored VOD C http://172.22.173.10.8080/vbrickvideo1 × 7 Stored VOD C http://172.22.173.10.8080/vbrickvideo1 × 8 http://172.22.1 http://172.22.173.10.8080/vbrickvideo1 × 10 Live Interior C http://172.22.173.10.8080/vbrickvideo1 × Add New URL ×
	Apply Default

Figure 9. General Configuration Page

Configuration	displays all IPR configuration options including general options, network configuration, and security options.
Status	displays system data including MAC address, serial number, etc.
Maintenance	displays options to reboot or shutdown the IPR, or launch a software upgrade.
Help	displays the IPR online help pages.
Logout	automatically logs out the current user and displays the IWS login page.

Logging In

You login to the IWS management application for the IPR by typing its IP address in a web browser and entering the default username and password (admin and admin) or by typing the current username and password if they have been changed on the <u>Security Configuration</u> page. *If you have problems logging in because of a misconfigured IPR or a lost IP address*, you can still launch IWS by connecting a USB keyboard directly to the IPR:

- ▼ To manage the IPR via a USB keyboard:
- 1. Attach a USB keyboard (and optionally a mouse) to the IPR and press **Ctrl-Alt-F1** to launch IWS on the attached TV monitor.
- 2. After logging in, check the IP address and/or configure the IPR as necessary. If you don't have a mouse, use **Tab** and **Shift-Tab** to navigate.
- 3. When done, logout, press Crtl-Alt-F2, and remove the keyboard. This restores the user interface in the configured Start mode.
- Note You can use the IP address or the hostname to log into the IPR. Depending on your network, you may need to enter a fully qualified domain name. For example, you may need to enter http://<hostname>.<domain_name>.loc as the url rather than simply http://<hostname>.

Saving Changes

You must be logged in as an admin user to save changes; if logged in as a public user, no configuration changes or maintenance operations will take effect. Once logged in you can navigate and change configuration parameters as necessary. Each page has it's own Apply button that saves the changes you made *on that page*. Click Apply to save all of the changes you've made on a page—do not click Apply after each individual change. Note that file system writes, such as those resulting from a change to the configuration or modifying the local user interface, may take several seconds. Do not reboot the IPR immediately after such writes to avoid corrupting the file system and possibly losing data.

Note When making configuration changes, always press **Apply** to save your changes. When selecting the **Default**, an **Apply** is not necessary. A **Default** automatically applies your changes and *may* reboot the IPR depending on the parameters you changed.

General Configuration

	t Mode al-Fullscreen	http://172.22.173.10:8080/vbrick	video1	
O Por	tal Server	http://172.22.115.1		
⊙ Loc	al		(leave blank for defau	ult)
Loca Ch#	al-Mode URLs – # Title l	JRL	Info	
1	Live Science htt	p://172.22.173.10:8080/vbrickvideo1		x
2	Stored VOD C htt	p://172.22.115.2:8080/vbrickvideo1		x
4	Live Exterior (htt	p://172.22.173.10:8080/vbrickvideo1		x
5	Stored VOD C htt	p://172.22.173.10:8080/vbrickvideo1		x
7	Stored VOD C htt	p://172.22.173.10:8080/vbrickvideo1		x
8	http://172.22.1 htt	p://172.22.173.10:8080/vbrickvideo1	Live Leadership Channe	x
10	Live Interior C htt	p://172.22.173.10:8080/vbrickvideo1		x
	d New URL			

Start Mode

Controls the type of user interface and location of content that the IPR will display at startup.

Local-Fullscreen	Use this option to set the unit to decode one channel and operate in full screen mode at start up. You also need to enter a fully-qualified URL for the channel as in the following example. If you use a public URL, be sure it is accurate and has not changed. See Table 11 on page 12 for detailed Local-Fullscreen URL syntax. http:// <ip_address>:<port_number>/<channel_name></channel_name></port_number></ip_address>
Portal Server	Use this option if the installation includes an EtherneTV Portal Server and enter the Portal Server URL.
Local	Use this option if the installation does not include an EtherneTV Portal Server. Check Default to use the default pages. Uncheck Default and enter a Custom Local Path to use your own pages. See <u>Local Mode</u> <u>Configuration</u> on page 29 for more about Local Mode. Note that the Custom Local Path is relative to FTP root rather than absolute. For example, the following relative path is valid: Valid path: sample\local.asp Invalid path: c:\sample\local.asp

Local-Mode URLs

These fields are used to populate the program list on the IPR when **Start** mode is set to **Local**. See <u>Local Mode Configuration</u> on page 29 for a discussion of how to add channels.

Ch# Channel number that will display on the IPR.
--

Title	Channel title that will display on the IPR. Any number of alphanumeric characters. Use any combination alphanumeric, special characters, and spaces not exceeding 22 characters.
URL	Channel URL with port number in the following format: http://172.22.115.2:8080/vbrickvideo1/group1
Info	Enter descriptive information. This information is displayed beneath the preview window. Note: the Info button on the IPR remote control is used to view Portal Server data—not IPR data.

Network Configuration

Networking Configu	ration
General	
DHCP Enable:	O DHCP
IP Address:	172.22.173.9
Subnet Mask:	255.255.0.0
Gateway:	172.22.1.5
Hostname:	AA-Stan-IPR
Domain Name Serv	
Domain Name Server 1:	172.16.1.100
Domain Name Server 2:	172.16.1.101
	Apply Default

General

DHCP Enable	Set to DHCP if a DHCP server is present. Otherwise set to Static and configure an IP address in next field. Default = DHCP enabled.
IP Address	Enter a static IP address from a network administrator if a DHCP server is not present.
Subnet Mask	Set when using a static IP address.
Gateway	Set when using a static IP address.
Hostname	You can use the IP address or hostname to log into the IPR. The following rules apply to hostname:
	• must less than 19 characters.
	• first character must be a letter.
	• last character must be a letter or digit.
	• interior characters must be letters, digits, or hyphen.
	• no embedded spaces or special characters allowed.

Domain Name Servers

Domain Name Server 1	Enter IP address of the first DNS server if present.
Domain Name Server 2	Enter IP address of the second DNS server if present.

SAP Configuration

SAP Configuration Management SAP S	Settings
Transmit Enable:	I Enable
Group Name:	
Unit Number:	1
Retransmit Time:	10
Time to Live (TTL):	32
Type of Service (TOS):	0
IP Address:	224.2.133.134
Port:	9876
	Apply Default

Management SAP Settings

These options are used to enable or change the management SAP settings on the IPR. The IPR transmits management SAPs for use by other VBrick devices and/or applications on the network such as VBDirectory or the ETV Portal Server. SAPs (Session Announcement Protocol) announce the presence of a device on the network. If configured, each VBrick device periodically multicasts a SAP announcement to the network which can be detected by listeners like VBDirectory.

Transmit Enable	Enables transmission of the management SAP. Check to enable. Leave blank to disable.
Group Name	IPR can be assigned to groups for more organized management. This is the group name that the IPR is associated with (for example Finance).
Unit Number	This value represents the specific IPR ID when it is part of a group (for example Finance, unit 33).
Retransmit Time	Specifies the interval (in seconds) between each transmission of the management SAP.
Time to Live (TTL)	Specifies the number of hops a SAP will travel before being discarded.
Type of Service (TOS)	Sets the value of the TOS bits in the IP header of the management SAP packets. This parameter can be used to implement quality of service within a network.

IP Address	Specifies the unicast or multicast IP address that the SAP will be sent to.
Port	Specifies the IP port that the SAP will be sent to.

Decoder Configuration

Note Be aware that any changes to the <u>Video Output Settings</u> (see below) on the Decoder Configuration page will reboot the IPR resulting in a brief loss of connectivity.

Model 8000-0113-0002

Decoder Configura	ation				
Player Settings Minimum Buffer Size: Buffer Duration: Output Volume:		262144 (size 1000 (in m 100 (Omin - 10			
output volume.			Joinax)		
		Арр	ly Default	t	
Video Output Set Output Type: VGA/DVI Resolution: Name	tings Value	Composite - NTSC 3	Standard 🗸	Default	
Flicker:	1	0	16	1	
Saturation:	143	0	254	143	
Contrast:	134	0	254	134	
Brightness:	21	0	254	21	
		Арр	Default	t	

Model 8000-0113-0001

Player Settings Minimum Buffer Size: 262144 (size in bytes) Buffer Duration: 1000 (in ms) Output Volume: 100 (0min - 100max)
Output Volume: 100 (Omin - 100max)
Apply Default
Video Output Settings
TV/Monitor Format: NTSC Standard 💌
ChromaFilter 🔽 Enable
LumaFilter 🗌 Enable
Name Value Min Max Default
Flicker: 100 0 100 100
Saturation: 50 1 100 50
Contrast: 50 0 100 50
Brightness: 50 0 100 50
Apply Default

Player Settings

Minimum Buffer Size	Default = 262144 bytes. This setting will allow more data to be saved before it is displayed. This can be used in networks where there is a high delay or congestion in the backbone. This parameter should generally be left at the default value. However, if a stream will not open, try setting at a higher value.
Buffer Duration	Default = 1000 ms.
Output Volume	Use to set default output volume. This can be overridden, adjusted, or muted using the IR Remote Control.

Video Output Settings

Output Type	Model 8000-0113-0002
	Composite - NTSC Standard
	Composite - PAL Standard
	• Component - 720p
	• VGA (Note: You must change the BIOS configuration to use VGA
	as Output Type, or to change to a different output type after having
	first configured for VGA. See Changing the Output Type to VGA
	(Model 8000-0113-0002) or Changing the Output Type from VGA
	(Model 8000-0113-0002) below for details.)
	Note: The DVI interface functions reliably in all modes except PAL.

TV/Monitor	Model 8000-0113-0001
Format	NTSC Standard
	PAL Standard
	NTSC Widescreen
	PAL Widescreen
	• 800x600 (VGA)
	• 1024x768 (VGA)
	• 1280x720 (VGA)
	• 1920x1080 (VGA)
VGA/	Model 8000-0113-0002
DVI Resolution	• 800x600
	• 1024x768
	• 1280x1024
ChromaFilter	Model 8000-0113-0001 only. Chroma represents the color information in an image. Chroma is typically paired with luma.
LumaFilter	Model 8000-0113-0001 only. Luma represents the brightness in an image. Luma is typically paired with chroma. Luma represents the image without any color.
Flicker	Condition caused by the mismatch of vertical and horizontal refresh rates.
Saturation	The spectral purity or intensity of a color.
Contrast	The control used to set the peak white level of the picture. A high contrast picture will appear to have more detail.
Brightness	Adjusts the light intensity of an image.

Changing the Output Type to VGA (Model 8000-0113-0002)

You must change the BIOS configuration to use VGA as Output Type, or to change to a different output type after having first configured for VGA.

- ▼ To change the BIOS to use VGA as **Output Type**:
- 1. Set the **Output Type** to VGA.
- 2. Power on the unit and connect a USB keyboard to the rear panel.
- 3. Tap the Delete key (on keyboard) quickly until the BIOS menu comes up.
- 4. Tab to ChipSet, then select NorthBridge and press Enter.
- 5. Select **AGP** and press Enter.
- 6. Go to OnChip VGA Configuration and press Enter.
- 7. Go to Select Display Device and press Enter.
- 8. Select **CRT+DVI** to configure for VGA.
- 9. Press F10 and OK to save, exit, and reboot.

Changing the Output Type from VGA (Model 8000-0113-0002)

If you are changing the **Output Type** from VGA to either Composite (NTSC or PAL) or Component (after having previously configured the BIOS for VGA), set the **Output Type** to Composite or Component as desired. Then follow Steps 2–7 above and continue as follows:

- 8. Select **TV** to configure for Composite or Component.
- 9. Press F10 and OK to save, exit, and reboot.

Security Configuration

This page lets you select the interfaces that can be used to access the IPR. It also manages usernames and passwords. As a standard best practice, VBrick recommends that you change (and carefully record) the admin and public passwords during initial configuration of the IPR.

Security Configuration	
Admin Interfaces	☑ Enable
Admin Pages:	✓ Enable
Web Service:	✓ Enable
Session Timeout:	15 in minutes. (0 for no Timeout)
Passwords	
Admin Username:	admin
Admin Password:	(Please retype your password)
Public Username:	public
Public Password:	•••••• (Please retype your password)
Apply Default	

Admin Interfaces

The Admin Interfaces are enabled by default. Be aware that if you disable the Admin Pages you will not be able to configure the IPR; if you disable the Web Service you will not be able to upgrade the IPR. If you disable both these interfaces, it will be difficult to regain control. Contact VBrick Support Services for more information.

FTP Server	Enables access to the FTP server for Local mode. Default = enabled.
Admin Pages	Enables access to the Admin pages. Default = enabled.
Web Service	Enables access to the IPR web service. Use to control the IPR via an application other than IWS. Default = enabled.
Session Timeouts	Defines the time period in minutes before an admin session times out. Default = 15.

Passwords

The WM IPR has two privilege levels: admin and public. Admin users can set or change any parameter. Only one admin user can be logged in at a time; additional admin users will not be allow to log in. Public users have read-only access.

Admin Username	Default = admin.
Admin Password	Default = admin.

Public Username	Default = public.
Public Password	Default = public.

Upgrade Configuration

These settings are used to identify the FTP server that will be used for a *manual* IPR upgrade. In most cases you will use the **ETV-IPRDownload** application (not available in v4.4.3) to upgrade IPR software. This application lets you automatically upgrade one or more IPRs and provides detailed information and feedback. However you can also use the **Pull-Upgrade Settings** explained below to run a manual upgrade on a single device. After setting these parameters, go to the **Maintenance** page and click **Upgrade**.

Upgrade Configuration	
Pull-Upgrade Settings	
FTP Server IP/Hostname:	172.22.2.41
FTP Server Username:	STBUser
FTP Server Password:	•••••
FTP Server Source File:	Release0.0.1.7\WMIPR]
Apply Default	

Pull-Upgrade Settings

FTP Server IP Address/Hostname	Hostname or IP address of the external FTP server from which the IPR can access upgrade files.
FTP Server Username	Username used to login to external FTP server.
FTP Server Password	Password used to login to external FTP server.
FTP Server Source File	Upgrade file name on external FTP server or path to the file relative to FTP root.

Miscellaneous Configuration

Miscellaneous Configur	ation
Splash Screen Image © Default Image	
C Custom Image Path	
Reboot Parameters – Reboot Frequency:	1000 (0 = Never, 1 - 999 = Days, 1000 - 86400 = Seconds)
Reboot Time:	0 (Format is HHMM (0000 - 2400))

Splash Screen Image

This page lets you change the splash VBrick logo image (see below) that is briefly displayed during startup or reboot. You can use any .jpg or .gif image. Simply upload the file to the user FTP directory as explained in <u>Customizing the Interface</u> on page 30. After uploading the image, be sure to test and/or resize as necessary. To view the image, reboot the IPR from the Maintenance page.

Splash Screen	 Default Image – use the default image at left during startup. Custom Image Path – use a custom .jpg or .gif image at startup or reboot. Enter the image path relative to the user FTP directory, for example: myImages\mySplash.gif.
---------------	---

When

Reboot Parameters

If necessary, you can use this page to configure the IPR for automatic reboot at a specified interval from 16 minutes to every 999 days. The timing begins when the IPR is turned on and the IPR will automatically reboot when the defined time has elapsed.

Reboot Frequency	Default = 0; do not reboot. A number from 1–999 sets the number of days between automatic reboot. A number from 1000–86400 sets the number of seconds between automatic reboots. Note: Setting this value on an IPR that was previously powered on can result in an immediate reboot (if the value is set to a time smaller than the amount of time that the device has been running since last reboot).
Reboot time	Default = 0300. A four-digit time (HHMM) representing the hour/ minute that the reboot should occur (on a 24-hour clock). This parameter is only used if the Reboot Frequency is set to days and not seconds. If the frequency is in days, first the IPR will wait for the elapsed number of days to pass, and then will wait for the next occurrence of the specified time before rebooting. For example, if the IPR is configured to reboot every 1 day at 1130 and is started on 01/01/2008 at 10:00AM. On 01/02/2008 at 10:00am the number of days (1) would have elapsed however the IPR will wait until 11:30AM before rebooting. This is useful to prevent the device from rebooting during core business hours.

Chapter 3

Status, Maintenance & Help

Topics in this section

Status	
Maintenance	
Help	

Status

All fields on the Status page are read-only.

Model 8000-0113-0002

Status		
System Status		
MAC Address:	00029E01C4EE	
Model Number:	8000-0113-0002	
Software Version:	5.1.0.2	

Model 8000-0113-0001

Status		
System Status		
MAC Address:	00803F095C21	
Serial Number:	UNKNOWN	
Model Number:	8000-0113-0000	
Date of Manufacture:	06/07/2007	
Software Version:	4.1.0.0	

System Status

MAC Address	Unique physical address of the IPR's network interface.
Serial Number	VBrick serial number.
Model Number	VBrick model number.
Date of Manufacture	VBrick manufacture date.
Software Version	Current software version of code.

Maintenance

	anagement
eboot:	
Reboot	
hutdown:	
Shutdown	
	1
Jpgrade	
pgrade:	
Upgrade	
Default I	Device Configuration
	ation Parameters to Default, except IP Address, Subnet Mask, Gateway IP, Network
	lames, Passwords
Default All	1
	onfiguration Parameters to Factory Defaults
	efaults

Power Management

Reboot	Use to reboot the device. Must be logged in as an administrator.
Shutdown	Use to place device in standby mode. Must be logged in as an administrator.

Upgrade

Pull Upgrade Settings

Upgrade	Upgrade the device using the <u>Pull-Upgrade Settings</u> on page 22. You
	must be logged in as an administrator.

Default Device Configuration

Default All	Set all configuration parameters to default, <i>except</i> IP Address, Subnet Mask, Gateway IP, Network DHCP, user names, and passwords. You must be logged in as an administrator.
Factory Defaults	Restore all configuration parameters to factory defaults. You must be logged in as an administrator.

Help

Use this option to display the searchable online help system that launches in a separate browser window.

Contents Search	C ~ V	
WM IP Receiver v4.4.3 Admin Guide Hardware Setup Product Overview 1. Setup Hardware 2. Configure Network Parameter 3. Login to IWS 4. Select a Start Mode Software Configuration Sugar Values General Configuration Security Configuration Security Configuration Decoder Configuration Upgrade Configuration Status, Maintenance & Help Local Mode Configuration Status, Maintenance & Help Local Mode Configuration Software Upgrade	VBrick's WM IP Receive designed for 24x7 oper scalability. The WM IP WM IPR plays Windows fully-featured VBrick Et	iver v4.4.3 Admin Guide r is similar to a conventional set top box but is significantly more stable, rugged, and reliable. It is ation, and built for enterprise networks that require a high degree of stability, security, and eceiver meets the demanding requirements of VBrick's EtherneTV Media Distribution System. The Media streams from VBrick WM appliances and Windows Media servers. The WM IPR is also a herneTV client. This means that in addition to the ability to deliver video, the WM IPR will eventually ess logging, and device control from the Portal Server.
	Hardware Setup	provides an overview of the IP Receiver and explains how to connect, configure, and login. The hardware setup procedure varies by model number.
	Software Configuration	explains all IPR configuration options including Start mode, network configuration, and security options.
1	Status, Maintenance & Help	explains how to check system information, reboot or shutdown the IPR, and launch a software upgrade.

Chapter 4

Local Mode Configuration

Topics in this section

Dverview
Configuring Streams
Customizing the Interface

Overview

When the **Start** mode is configured for **Local** on the **General Configuration** page, the IPR will display a list of all streams that are currently configured on this page. In **Local** mode, the IPR user interface is either a pre-configured "default" page or a customized page that you have designed and FTPed to the IPR web server. The user interface consists of multiple files that reside at the root level of the web server. Figure 10 below shows the default Local page after it has been configured to include stream information.

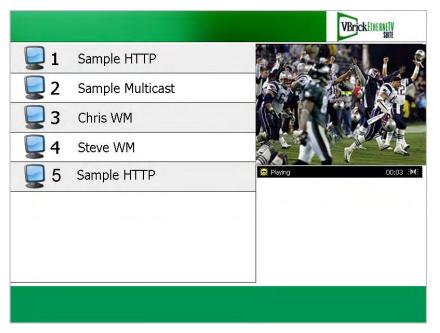


Figure 10. Default Interface in Local Mode

Configuring Streams

Use the following steps to add streams to the Local interface page. Note that changes to the Local-Mode URLs are not saved until you press Apply. If you accidentally delete stream, and did not press Apply, you can simply log out and log back in to recover.

- ▼ To add streams to the Local interface:
- 1. Go to the General Configuration page in IWS.

- 2. Click Add New URL to populate the page with empty fields for the new stream.
- 3. Complete all fields as explained below.
- 4. Repeat Steps 2 and 3 until all streams have been added.
- 5. Click Apply when done. No reboot is necessary.
- 6. Click the red X to remove a previously configured stream. Use carefully—there is no warning message.

	t Mode			
O Loca	al-Fullscreen	http://172.22.173.10:8080/	vbrickvideo1	
O Port	al Server	http://172.22.115.1		
• Loca	al		(leave blank for de	fault)
loca	l-Mode URLs —			
Ch#		IRL	Info	
1	Live Science http	o://172.22.173.10:8080/vbrickvid	eo1	x
2	Stored VOD C http	://172.22.115.2:8080/vbrickvide	o1	x
1	Live Exterior (http	o://172.22.173.10:8080/vbrickvid	eo1	x
5	Stored VOD C http	o://172.22.173.10:8080/vbrickvid	eo1	x
7	Stored VOD C http	o://172.22.173.10:8080/vbrickvid	eo1	x
3	http://172.22.1 http	o://172.22.173.10:8080/vbrickvid	eo1 Live Leadership Chann	x
10	Live Interior C http	p://172.22.173.10:8080/vbrickvid	eo1	x
	New URL			

Figure 11. General Configuration Page

Ch#	Channel number that will display on the IPR.	
Title	Channel title that will display on the IPR. This title corresponds to the content provided by the URL field above. Use any combination alphanumeric, special characters, and spaces not exceeding 22 characters.	
URL	This is typically the channel URL with port number in the following format: http://172.22.115.2:8080/vbrickvideo1 For a complete list of valid URL syntax, see Table 11 on page 12.	
Info	Enter description information. This information is displayed beneath the preview window. Note: the Info button on the IPR remote control is used to view Portal Server data—not Local mode information.	

Customizing the Interface

The Local UI files consist of an .asp page and several JavaScript files and .gif images that reside at the root level of the IPR web server in the sample folder. You can modify or change these files as necessary to move page elements and/or create a different look-and-feel. You can copy and modify the samples files on your local computer or you can create your own user interface using local.asp as an example. To FTP upload/download files to or from the IPR, you can use Internet Explorer, another GUI-based FTP client, or the command prompt

FTP client. Note that the FTP root folder has 8 MB of writable storage available for local UI files and images.

The sample folder at the root level of the FTP server has all the files that are used to create the default local page. (These files are always available and are rewritten when you reboot the IPR. For this reason, be sure to copy these files to a different folder if you customize the interface.) Use these sample files to create your own local files and FTP them to the web server. When you are done, go to the **General Configuration** page, uncheck the **Default** Local page, and enter the **Custom Local Path** to the new files, for example **myLocalUI/myUI.asp**

It is important to note that the WM IPR does not support anonymous login. When logging in to the IPR FTP server from the Windows Explorer be sure to include the username and password in the following format: ftp://admin:admin@<ipr-IPaddress>

- Note Windows Explorer FTP uses Internet Explorer components and works differently with Internet Explorer 7 than with earlier versions. To view FTP files in the Windows Explorer, open Internet Explorer 7, then go to Tools > Internet Options > Advanced > Browsing and check Enable FTP Folder view (outside of Internet Explorer). Then, after logging in, go to the Page menu and select Open FTP Site in Windows Explorer.
- ▼ To access the IPR FTP server from Windows Explorer:
- 1. If using Internet Explorer 7, be sure you have the browser configured to Enable FTP Folder view (outside of Internet Explorer) as explained in note above.
- 2. Open Windows Explorer (*not Internet Explorer*) and enter an FTP command using the FTP username and password as shown in the following example:

File Edit View Favorites Tools Help					
😋 Back 🔹 🕤 🔹 🍠 🔊	Search 😕 Fold	ers 📄 🗟 🗙 🗙 🌍 🛄 .			
Address () ftp://172.22.173	.9/sample/			-	
Name -	Size	Туре	Modified		
🔄 banner, jpg	14.9 KB	JPEG Image	3/30/2007 1:29 PM		
💼 blend. jpg	617 bytes	JPEG Image	3/30/2007 1:29 PM		
🔝 listControl.inc	5.71 KB	INC File	3/30/2007 1:29 PM		
🛐 live_stream.gif	2.47 KB	GIF Image	3/30/2007 1:29 PM		
🥑 local.asp	2.92 KB	Active Server Page/WebWo	3/30/2007 1:29 PM		
VBAPIConstants.inc	3.61 KB	INC File	3/30/2007 1:29 PM		
		Üse	er) admin	Internet	

ftp://admin:admin@<IPR-IPaddress>

Chapter 5

Using the IPR

Topics in this section

Overview	33
Local-Fullscreen Mode	
Portal Server Mode	
Local Mode	35
Using the Remote Control	

Overview

The user interface of the WM IPR screen depends on the **Start** mode. Once configured with an IP address and powered on, the IPR opens in one of three **Start** modes. In **Local-Fullscreen** mode you can view only one channel and it uses the entire screen on the attached monitor; there are no user controls whatsoever. In **Portal Server** mode, all features and options of the IPR are controlled through the VBrick Portal Server. In **Local** mode, the IPR displays a user interface page that is stored on the IPR web server; the available streams on this page are configured on the IWS **General Configuration** page. You can use the IR Remote Control that comes with the IPR to navigate in Portal Server mode and in Local mode. (You can also plug a USB keyboard and mouse into the back of the IPR to perform navigation tasks.)

Local-Fullscreen Mode

If the IPR Start Mode is set to Local-Fullscreen mode (Figure 12), there will be a (live or stored) video image on the TV monitor at system startup. This image is controlled by the system administrator. *It covers the entire screen and there are no user controls shown or available.* The IR Remote Control is nonfunctional in this mode except for Volume and Mute. The video image is programmed to decode a specific stream. This stream is preset on the General Configuration page; the audio output volume is preset on the Decoder Configuration page.



Figure 12. Local-Fullscreen Mode

Portal Server Mode

In **Portal Server** start mode (Figure 13), the start page is downloaded from a VBrick EtherneTV Portal Server. The live streams and videos available on the IPR are configured in the Portal Server. In **Portal Server** mode, the IPR has optional login authentication to protect against unauthorized use. If authentication is enabled on the Portal Server, the IPR will display a login window when powered on. You must use the numeric keypad on the IR remote control or a USB keyboard to enter a PIN. (PIN numbers are configured in the Portal Server.) Once logged in, the IP Receiver displays the Portal Server home page. This page is dynamically updated with a list of live streams and/or stored videos. *See the ETV Portal Server Admin* for more about the Portal Server.

Note The ETV Portal Server is outside the scope of this document. For more about how to configure and use the Portal Server with an IPR, see the *Portal Server Admin Guide* and the *Portal Server User Guide*.

VBrickEtheaneTV some
Andy-Encoder Program 1
Andy-Encoder Program 1
A-StanWM
Billswm Program 1
Billswm Program 1
BruceWM Progr Video Library
BSB-HomePull Scheduled Search
BSB-MIX-DEC P Status
- MENU -

Figure 13. Portal Server Mode

Portal Server Menu

The menu shown in Figure 13 is only available in Portal Server mode. Use the **Menu** button on the Remote Control to toggle the menu on or off. *Note that the menu does not show the currently selected viewing option*. For example, if you are on the **Video Library** page, this is not a menu option.

Video Library	Show all stored streams available for viewing. Select any folder to view contents; select folder UP to exit a folder. Scroll down to see all.	
Live Broadcasts	Show all live streams currently in progress. Scroll down to see all.	
Scheduled	Show all scheduled streams (stored only) currently in progress.	
Search	Search the current page by Keyword, Description, Title, All, or any custom fields defined by an administrator. Use the number keypad for text entry as you would on a cell phone by pressing one key per letter.	
Status	Shows Record, FTP, and Ingest status. Use Refresh (click left arrow) to update the page or Purge (click right arrow) to remove selected entries or all entries. Highlight and select any item in progress to abort. After performing any action, click Refresh to update the page.	

Local Mode

If the IPR is configured for **Local** mode (Figure 14), the start page (local.asp) is stored locally on the IPR. The content available on the page (links to either live streams or stored videos) is added by an administrator using the **General Configuration** page in IWS. <u>Local Mode</u> <u>Configuration</u> on page 29 explains how to add streams or modify the interface. To change the available content, you simply add or delete streams.

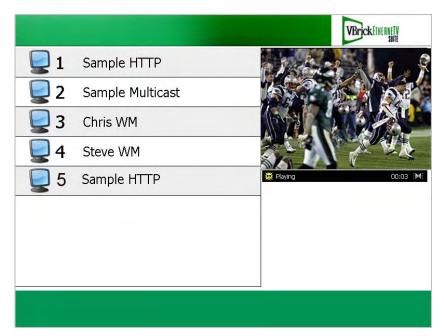


Figure 14. Local Mode

Using the Remote Control

You can use the IR (infrared) Remote Control in Portal Server mode and in Local mode; it is non-functional in Local-Fullscreen mode. (You can also plug a USB keyboard and mouse into the back of the IPR to perform all navigation tasks.) The infrared Remote Control works basically the same regardless of how the start mode is configured. It is important to note that many of the controls have slightly different functionality depending on where the focus is. Also, several of the buttons are not mapped to any item and are non functional. Be sure to point the remote at the IPR—not at the TV. Also be aware that you may have one (or both) of two different Remote Control devices. Use the instruction(s) below that correspond to your model number. To determine model number, reboot the IPR and note the model number when the splash screen is displayed.

Using the 8000-0113-0002 Remote Control

Using the 8000-0113-0001 Remote Control

Button	Function
Power	Unlabeled. Turn power on or off.
Mute	Mute the audio.
0–9	Portal Server mode. Enter a PIN, or enter a search string using the number keypad for text entry.
Arrows	Change focus to next item; select previous stream.
Info	Portal Server mode only. Displays information about the currently selected stream.
Back	Return to the previous page.
Search	Portal Server mode. Display the search window. Press Search again to exit window.
Record	Portal Server mode: Record stream. During recording, a red indicator is shown in lower right area of window.
Guide	Go to fullscreen; exit fullscreen.
Menu	Toggle the Menu on or off in Portal Server mode.
СН	Adjust the channel up or down.
Vol	Adjust the audio up or down.
Rew	VOD content only: Rewind the current stream.
Pause	VOD content only: Pause the current playing stream.
FF	VOD content only: Fast forward the current stream.
Stop	Close the current stream.
Play	Play the selected stream.
OK	Initiate an action or select an option depending on where the focus is.
Clear	Deletes the previous digit or character when entering search parameters or a PIN.
Enter	Press when input complete.
	Use this unlabelled button to reload/refresh page if you get a "page not found" error.
Live	Portal Server mode. Go to Live Broadcasts page.
VOD	Portal Server mode. Go to Asset Library page.
Sched	Display scheduled streams available for viewing.
Mark	Use to create a bookmark on the Portal Server.

Using the 8000-0113-0002 Remote Control

Button Fu	nction
Red Un	labeled. Turn power on or off.
Standby Pla	ce unit in soft standby.
Mute Mu	te the audio.
Rew VC	D content only: Rewind the current stream.
Play Pla	y the selected stream.
Pause VC	DD content only: Pause the current playing stream.
FF VC	D content only: Fast forward the current stream.
Replay Res	erved for future use.
Skip Res	erved for future use.
Stop Clo	se the current stream.
	rtal Server mode: Record stream. During recording, a indicator is shown in lower right area of window.
Back Ret	urn to the previous page.
	tal Server mode only. Displays information about the rently selected stream.
Arrows Ch	ange focus to next item; select previous stream.
OK Ini	tiate an action or select an option depending on focus.
Guide Go	to fullscreen; exit fullscreen.
Menu To	ggle the Menu on or off in Portal Server mode.
Vol Ad	just the audio up or down.
F1–F4 Res	erved for future use.
Page Mo	ve to top, bottom, next, or previous page.
Live Po:	tal Server mode. Go to Live Broadcasts page.
VOD Por	tal Server mode. Go to Asset Library page.
Sched Dis	play scheduled streams available for viewing.
	rtal Server mode. Display the search window. Press rch again to exit window.
Space En	ter a space when using the number keypad.
Mark Us	e to create a bookmark on the Portal Server.
	tal Server mode. Enter a PIN, or enter a search string ng the number keypad for text entry.
	letes the previous digit or character when entering rch parameters or a PIN.
Enter Pre	ss when input complete.

Using the 8000-0113-0001 Remote Control

Chapter 6

Legacy Models

Note This section explains power state behavior and remote control usage for IPR Model 8000-0113-0000. To determine the IPR model number, reboot the IPR and note the model number on the splash screen with the VBrick logo. If the model number is **not** 8000-0113-0000 use the documentation for <u>Setup Model 8000-0113-0002</u> or <u>Setup Model 8000-0113-0001</u> as appropriate.

Topics in this section

Model 8000-0113-0000

Model 8000-0113-0000 Power States

For IPR Models 8000-0113-0000, once plugged into an AC power source, the IPR is always in one of three states: **On**, **Off**, or **Standby**. Standby is a power saving mode in which the device is neither on or off. There are two triangular silver buttons on the front panel. You can turn power on or off using the (upper) triangular silver button. The lower button has no function. You can enter or exit **Standby** mode using the power button on the remote control.

Button	Description
On	Turn the IPR on (from the off state) by briefly pressing the Power button on the front panel or using the Power button on the remote control.
Off	Turn the IPR completely off by pressing the Power button on the front panel for five seconds or more. The IPR is off when unplugged or immediately after being plugged in.
Standby	Put the IPR in Standby (from the on state) by pressing the Power button on the remote control or by using the Shutdown command on the IWS Maintenance menu. To exit Standby, press Power on the remote control. In Standby, there is no network connectivity and the TV will be black.

Model 8000-0113-0000 Remote Control

IPR Model 8000-0113-0000 is shipped with a corresponding IR remote control. You can use the IR Remote Control in Portal Server mode and in Local mode; it is non-functional in Local-Fullscreen mode. (You can also plug a USB keyboard and mouse into the back of the IPR to perform all navigation tasks.) The infrared Remote Control works basically the same regardless of how the start mode is configured. It is important to note that many of the controls, for example Ch/Page up or down, have slightly different functionality depending on where the focus is. Also, several of the buttons are not mapped to any item and are non functional.

Button	Description	
Mute	Mute the audio.	
Power	Puts the IPR in or out of Standby mode.	
Record	Portal Server mode only: record the current stream. When a recording is in progress, a red indicator is shown in lower right area of window.	
Stop	Close the current stream.	
Play	Play the selected stream.	
Rew	VOD content only: Rewind the current stream.	
Pause	VOD content only: Pause the current playing stream.	
FF	VOD content only: Fast forward the current stream.	
Back	Return to the previous page.	
Info	Portal Server mode only. Displays information about the currently selected stream.	
Arrows	Change focus to next item; select the previous stream.	
OK	Initiate an action or select an option depending on where the focus is.	
Volume	Adjust the audio up or down.	
Menu	Display the Menu in Portal Server mode.	
Ch/Page	Move toward top or bottom of current page.	
Guide	Got to fullscreen; exit fullscreen.	
Live	Portal Server mode. Go to Live Broadcasts page.	
VOD	Portal Server mode. Go to Video Library page.	
Sched	Display scheduled streams available for viewing.	
Mark	Create a bookmark on the Portal Server.	
0–9	Portal Server mode. Enter a PIN, or enter a search string using the number keypad for text entry.	
Search	Portal Server mode. Display the search window. Press Search again to exit window.	
Space	Enter a space when using the number keypad for text entry	
Clear	When entering search parameters or a PIN number, delete the previously entered digit or character.	



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