MEDIA I AVR2

User Manual







Please read these instructions carefully before using this product



Information for your safety

The device should only be serviced and maintained by qualified service personnel. Improper repair work can be dangerous. Do not attempt to service this product yourself. Tampering with this device may result in injury, fire, or electric shock.

Be sure to use the specified power source for the device. Connection to an improper power source may cause fire or electric shock.



Operation Safety

Before using the product, ensure all cables are not damaged and connected correctly. If you notice any damage, contact the support team immediately.

- To avoid short circuits, keep metal or static objects away from the device.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Operating environment temperature and humidity: Temperature: Operating: 0 °C to 35 ° Storage: -20 °C to 65 °C Humidity (Non-condensing): Operating: 0% to 90% Storage: 0% to 95%
- Unplug this product from the power outlet before cleaning. Do not use liquid or aerosol cleaners.
- Contact the support team <u>support@harvest-tech.com.au</u> if you encounter technical problems with the product.

Symbols



Warning or caution to prevent injury or death, or damage to property.



Extra notes on the topic or steps of the instructions being outlined.



Further information to content outside the scope of the user guide.



Extra pointers or suggestions in executing instructions.





Contact and Support support@harvest-tech.com.au

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Warranty

The warranty for this product can be found online at: <u>https://harvest.technology/terms-and-conditions/</u>

FCC Compliance Statement



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

In order to maintain compliance with compliance regulations, shielded HDMI cables must be used with this equipment

CE/UKCA Compliance Statement

Marking by the (CE) and (UKCA) symbol indicates compliance of this device with the applicable directives of the European Community and meets or exceeds the following technical standards.

- Directive 2014/30/EU Electromagnetic Compatibility
- Directive 2014/35/EU Low Voltage
- Directive 2011/65/EU RoHS, restriction of the use of certain hazardous substances in electrical and electronic equipment

Warning: Operation of this equipment is not intended for a residential environment and could cause radio interference.

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Overview

The AVR2 provides a multi-cast streaming solution enabling high quality video and serial data transfers from remote locations to any web enabled device (via AVR Live) without the need for a decoder.



Feature Summary

- HD video and serial data over low-quality satellite networks
- Customer controlled website functionality and self-managed user access
- Plug and play design

Multi-cast streaming solution



Interface



STREAMING LED Status

	Condition	Status
STREAMING	Off	Un-powered
	Cycling All Colours	System start up
	Solid Red	Network connection error
	Solid Blue	System idle - ready to stream
	Flashing Green	Stream starting
	Solid Green	System online and streaming
<	Flashing Red	Stream stopping

The display automatically turns off after 5 minutes and the stream remains active. Press View to turn the display back on

Rear Panel



Connections





IMPORTANT: 100-240VAC 47/63HZ only (UPS Recommended)



The AVR2 is supplied with a Quick Start Guide for installation. See the User Resources on the last page for access

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Network Configuration

Network configuration is set to DHCP by default

· An open Internet connection is required

Firewall Settings

It is common for corporate network firewalls/gateways/anti-virus software to have strict rules in place that may require modification to allow Harvest devices to function.

Harvest AVR2 devices communicate via UDP ports, therefore permanent network rules must be in place as per below.

- Protocol is IPv4 ONLY
- · Devices must have access to the public network (Internet)
- Inbound/Outbound to Harvest Server:
 •UDP port: 8180, 8500
- Devices must be able to send UDP packets between itself and the server in the range of:
 •UDP port: 9001 12000









- Ethernet connections MUST be reset for settings to take effect by
- Disconnecting and reconnecting the Ethernet cable
- · Cycling the connection off then on in network settings
- Power cycling the device

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AVR Live

The AVR Live web portal provides access to view the video and data streaming from one or more devices.

An administrator account is allocated to create and manage presentations consisting of one or more video and data streams, and assign access to viewers.



Administrator Interface

27 5	Harvest Primered by Harvest Infinity					Gary -
-0-	Home					Hore
*						
	Customise company page				Request a new stream server	Support
	×		0			RequestHarvest Infinityassistance
	Choose colors & styles		Create a presentation		AUS WIR CORRECTION	
	Presentations					
	•					
	City Harbour					
i j	A tour of the harbour Click to view					
		Funct	ions			
{•	video Streams					
	¢	• Hom	e	• C	istomise company r	ADA
	7085C2-803E25			• Cr	eate a new nresenta	tion
	Click to manage			• Re	auest a new stream	server
				• Su	innort	501 / 01
	Data Streams			00	φροιτ	
	٥	Pres	entations	• Vie	ew and configure vic	eo and data
	7085C2-803E25 Data			str	reams from one or n	nore devices
	Click to manage			50		
		 Vide 	o Streams	• Ma	anage video stream	bandwidth
					-	
		• Data	Streams	• Ma	anage data stream s	ettings

Viewer Interface

Viewers have access to presentations only





See "Viewer Access" on page 21 for further information

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Customizing Company Page

Customize the client's company page with logo, brand colours and background.



Creating Presentations

Create and customise a presentation for sharing video and data streams





Presentation Configuration

D Select the icon on the presentation





Enable/disable the Presentation or edit Titles





Clear allocated streams by selecting Clear

	✓ none	
	7085C2-803E25 - Video	
	7085C2-803E25 Test - Data	
	none \$	
. '		
12		
	- Thome	
13		
	none \$	



Manage assigned viewers

- View and revoke current users
- Invite additional users





If there is no Video or Data stream to select from any of the slots, or a specific stream cannot be found, see "Request a New Stream Server" on page 20.



4



A flat line would indicate an issue with the data configuration and/or connection. Alternate graph types can be set, see "Data Stream Configuration" on page 19.

Video Stream Configuration

1) Select 🔅 from a video stream tile





The following can be configured

- Bandwidth allocation
- Force start
- Remove presentation links





Select **Save** to apply settings



Administrator access only.

Data Stream Configuration

1) Select 🔅 from a data stream tile





The following must be configured to suit the serial input

- Baud rate •
- Data termination
- Data delimiter

Assign the serial fields to slots, name and select graph type

Editing data stream from : 7085C2-803E25			
Save			
Baud rate 9600	CRLF	on	Data Delimeter
Slot	Field	Туре	
Test	1 ~	Line 🗸	
Datablock 1	0 ~	v th	
Datablock 2	0 ~	v tto	
Datablock 3	0 ~	► No	
Datablock 4	• •	off	
Datablock 5	• •	vit vite	
Datablock 6	• •	off	
Datablock 7	• •	Off	



Administrator access only.

Request a New Stream Server

If additional AVR2 streams are required, customers can send a request to the Harvest sales teams from the home page.



Gaz Back



Your request is sent, a sales team member will contact you shortly

Viewer Access

(1)

Administrator invites viewer to presentation. Viewer receives an email with link, and login credentials





Agree to terms and conditions to proceed





3

The presentation displays



Appendix

Technical Specifications

Hardware			
Physical dimensions	482 (W) x 88 (H) x 365 (D) mm		
Weight	5.4 kg		
Power	Power Supply: Power Consumption (Power Consumption (i	100-240VAC, 47-63Hz operating): 50W dle): 25W	
Environmental			
Temperature	Operating:0 °C tStorage:-20 °C	⊃ 35 °C ; to 65 °C	
Humidity	Operating:0% toStorage:0% to	90% (Non-condensing) 95% (Non-condensing)	
Video			
Input	HDMI 1.4a Input resolution up to 2048X1080 @ 60fps RGB 4:4:4; YCbCr 4:4:4; YCbCr 4:4:2 colour sampling 8/10/12-bit colour depths SDI - SD HD 3G Input resolution up to 2048X1080 @ 60fps RGB 4:4:4; YCbCr 4:4:4; YCbCr 4:4:2 colour sampling 10/12-bit color depths Analog - Composite NTSC, PAL, SECAM HDMI 1.4a USB-A		
Other			
Ethernet	1x 1Gbps Ethernet		
Serial	1 x 9-pin D male, RS-232		
Audio	Mic 3.5mm (not used)		
Accessories (included)			
Cables	1 x IEC13 power cable 1 x 2m HDMI cable 1 x 2m Ethernet cable	(region specific)	
Adapters	1 x D9 null modem 1 x D9 serial gender ch	langer	
Documentation	Quick start guide		

Troubleshooting

System

Issue	Cause	Resolution
Device not powering	PSU switch in off position AC not connected	Confirm AC connected and switch is in the on position
Device overheating	Blocked vents	Ensure device ventilation is not blocked (refer quick start guide)
	Environmental conditions	Ensure device is located in an environment where specified operating conditions are not exceeded
Keyboard and/or mouse not	Faulty keyboard and mouse	Try another keyboard and mouse
responding	Not plugged in	Ensure device(s) or dongle correctly connected
Front LCD not operating	LCD has timed out	Press the "view" button (the LCD will turn off after 5 minutes)
No data stream shown in presentation	Parameters incorrect	Check input parameters match that of the serial input in AVRLive (see "Data Stream Configuration" on page 19)
	Data stream not assigned to slot	Assign data stream to slot (see "Data Stream Configuration" on page 19)
Stream starts after it is stopped	Stream set to force start	Contact assigned administrator to disable force start function

Network

Issue	Cause	Resolution
Red STREAMING LED (no network)	Network issue	Check the Ethernet cable is plugged in
		Confirm correct network settings with your Network Administrator
	Firewall settings	Ensure firewall settings are implemented, (see "Network Configuration" on page 8)

Video

Issue	Cause	Resolution
"No Signal" displayed	Source(s) not connected or powered on	Confirm video source(s) connected and powered.
	Damaged cable	Test source with another display
"Unsupported signal" or	Poor cable connection	Check cable connections
	Damaged cable	Replace cable
	Input signal not supported	Check input signal type is supported (see "Technical Specifications" on page 23)
	Input held on previous signal	Power cycle AVR2
Poor video quality	Poor input source quality	Test video source with an alternative display
	Input settings set low in AVR Live	Check stream settings on AVR Live (see "Video Stream Configuration" on page 18)
SDI or Analog inputs not showing	Incorrect port used	Both SDI and Analog inputs use BNC connections, ensure correct ports are used

AVR Live

Issue	Cause	Resolution
Video stream not displayed in presentation	AVR2 not powered or has network error	Confirm AVR2 is powered and STREAMING LED is green
	Stream not started	Press Start on AVR2 or enable Force start in device settings (see Video Stream Configuration on page 18)
	Incorrect device assigned	Confirm correct AVR2 device is assigned to presentation (see "Presentation Configuration" on page 15)
No data stream shown in presentation	Parameters incorrect	Check input parameters match that of the serial input in AVRLive (see Data Stream Configuration on page 19)
	Data stream not assigned to slot	Assign data stream to slot (see "Data Stream Configuration" on page 19)
Viewer unable to access presentation	Presentation disabled	Confirm presentation enabled (see "Presentation Configuration" on page 15)
	Viewer not assigned	Confirm viewer is assigned to stream and email is correct (see "Presentation Configuration" on page 15)



Contact and Support support@harvest-tech.com.au



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