

Specifications — MTP 15HD RS Series

Video

Gain	Unity
Number/signal type.....	1 set of proprietary analog signals
Connectors	1 female RJ-45

Video input and loop through — transmitter

Number/signal type.....	1 analog RGBHV, RGBS, RGsB, RsGsBs, component video (with bi-level or tri-level sync), S-video, or composite video 1 buffered RGBHV, RGBS, RGsB, RsGsBs local monitor loop through (includes ID bits)
Connectors	2 female 15-pin HD
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 V to 1.45 Vp-p
Impedance	75 ohms
Horizontal frequency.....	15 kHz to 130 kHz
Vertical frequency.....	30 Hz to 150 Hz
Return loss	<-30 dB @ 5 MHz
DC offset (max. allowable).....	250 mV

Video output — receivers (MTP RL 15HD RS, MTP RL 15HD RS SEQ)

Number/signal type.....	1 set of proprietary analog signals 1 analog RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, or composite video
Connectors	1 female RJ-45 1 female 15-pin HD
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 V to 1.45 Vp-p
Impedance.....	75 ohms
Return loss.....	<-30 dB @ 5 MHz
DC offset.....	< \pm 20 mV with input at 0 offset
Maximum resolution	1920x1200

NOTE Refer to the user's manual for the maximum distances recommended for specific resolutions.

Sync

Input type (transmitter)	RGBHV, RGBS, RGsB, RsGsBs, bi-level or tri-level for component video
Output type (receivers)	RGBHV, RGBS, RGsB, RsGsBs
Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level (transmitter)	3.5 V to 5.5 Vp-p, unterminated
Output level (receivers).....	0.3 Vp-p for component video (bi-level sync) 0.6 Vp-p for component video (tri-level sync) TTL: 4.0 V to 5.0 V p-p, unterminated for RGBHV, RGBS
Input impedance (transmitters) .	510 ohms
Output impedance (receivers)	110 ohms
Max. input voltage	5.5 Vp-p
Polarity	
Transmitters	Positive or negative (follows input polarity)
Receivers	Positive or negative (switch selectable)

Specifications — MTP 15HD RS Series, cont'd

Control/remote — external device (pass-through, unidirectional or bidirectional)

Serial control port input/output

MTP T 15HD RS RS-232 via (1) 3.5 mm, 3 pole captive screw connector

Receivers 1 set of proprietary signals on a female RJ-45 jack

Serial control port output/input

MTP T 15HD RS 1 set of proprietary signals on a female RJ-45 jack

Receivers RS-232 via (1) 3.5 mm, 3 pole captive screw connector

NOTE *The serial communications link of an MTP RL 15HD RS or an MTP RL 15HD RS SEQ is unidirectional only, transmitter to receiver, unless the receiver's directional jumper has been repositioned. The jumper should be repositioned only when the receiver is the only one in the system.*

Baud rates Up to 38400 bps at up to 600' (183 m) (Higher data rates and distances are possible. Performance will vary based on baud rate and cable length.)

Protocol Data bits = 5 - 8
Stop bits = 1 or 2
Parity = odd, even, none
Flow control = XON, XOFF, none

NOTE *Protocol is mirrored between the transmitter and the receiver.*

Serial control pin configurations. Captive screw connector: 1 = TX, 2 = RX, 3 = GND

General

Recommended cable type CAT 5/5E/6 (shielded or unshielded)

External power supply 100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 2 A, regulated

Power input requirements 12 VDC, 0.5 A

Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Cooling Convection, no vents

Mounting

Rack mount Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01 or RSB 129, #60-604-01); 1U, 6" deep rack shelf (RSU 126, #60-190-10 or RSB 126, #60-604-10); or VersaTools® 1U, 3.5" deep rack shelf (RSF 123, #60-190-20 or RSB 123, 60-604-20)

Furniture mount Yes, with optional Mini Under-Desk Mounting Kit, part #70-212-01 (MBU 123)

Pole mount Yes, with optional projector mounting kit, part #70-217-01 (PMK 100)

Enclosure type Metal

Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide)
(4.3 cm H x 10.9 cm W x 7.6 cm D)
(Depth excludes connectors.)

Product weight 0.4 lbs (0.2 kg)

Shipping weight 2 lbs (1 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)

Regulatory compliances

Safety CE, C-tick, CUL, UL

EMI/EMC CE, C-tick, FCC Class A, ICES, VCCI

MTBF 30,000 hours

Warranty 3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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