Hollyland Mars M1 Enhanced Wireless Transmitter and Receiver and Monitor User Manual

Hollyland Mars M1 Enhanced Wireless Transmitter and Receiver and Monitor

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Key Features

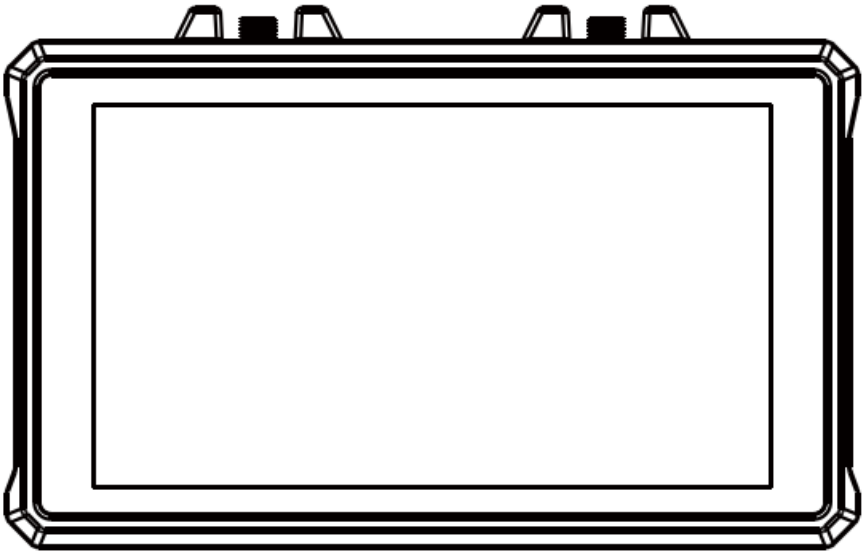
- Integrated wireless video transmission and monitoring solution
- Switchable transmitter and receiver modes
- 1 TX + 1 RX and 1 TX + 2 RX operating modes
- Line-of-sight (LOS) transmission range of up to 450ft (150m)
- Monitoring on mobile phones through the HollyView app
- Ultra-low transmission latency of 0.08s, meeting professional film and television production requirements
- 5.1–5.8GHz frequency bands, supporting frequency configurations in different countries and regions
- Dynamic frequency selection (DFS) feature
- Video playback and automatic trigger recording capabilities
- Custom 3D lookup table (LUT) import via a USB flash drive
- Extended battery life when working as a monitor with video transmission Wi-Fi disabled

- Professional image analysis tools (Luma waveform, RGB waveform, vectorscope, and histogram)
- Multiple auxiliary monitoring functions (Zebra pattern, focus assist, false color, aspect mark, anamorphic desqueeze, zoom-in, center mark, and crosshatch)
- Compatibility with the Mars family of products — Mars 300 Pro, Mars 400S Pro, Mars 4K, and Mars M1

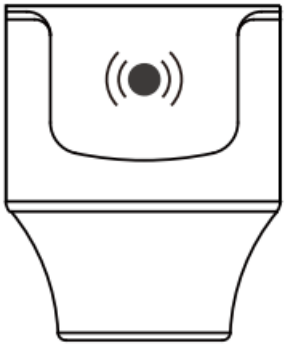
Note: The LOS range of up to 450ft (150m) and transmission latency of 0.08s provided above are based on laboratory testing results.

Item List

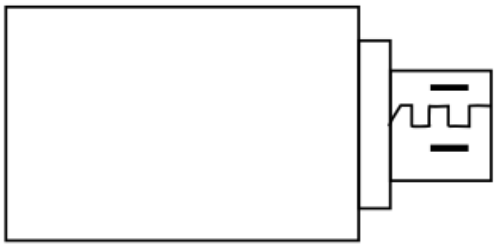
- Monitor



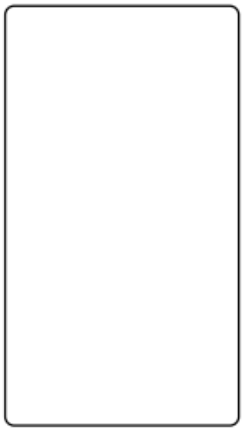
- Capsule Antenna



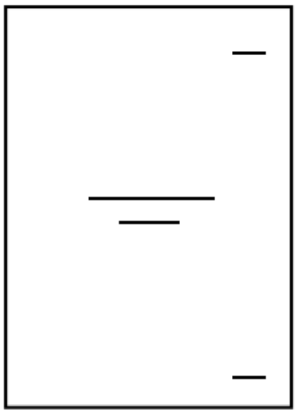
- OTG Adapter



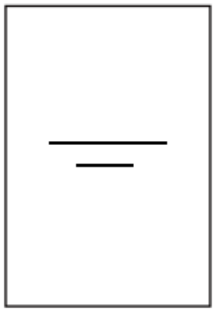
- Tempered Glass Screen Protector



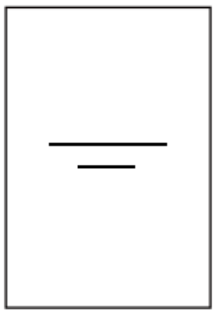
- Quick Guide



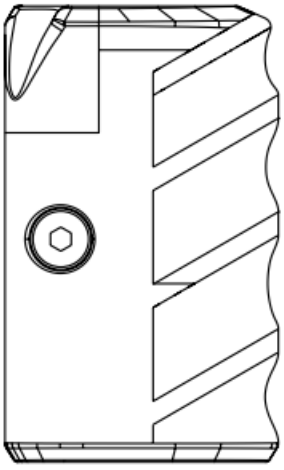
- Warranty Card



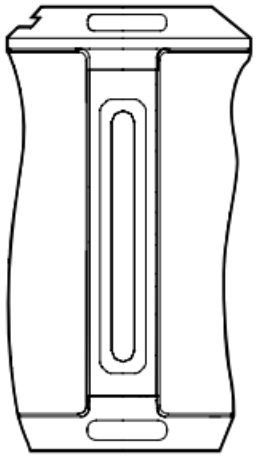
- Packing List Card



- Rosewood Handle

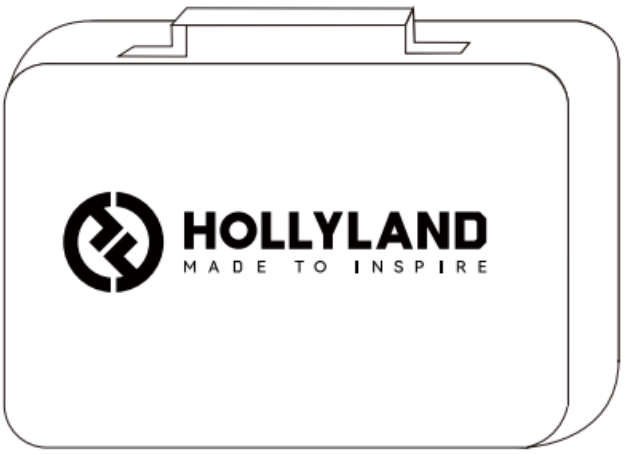


- T-shaped Handle

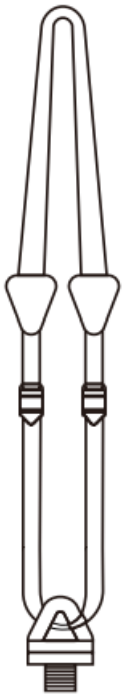


- Wrist Strap

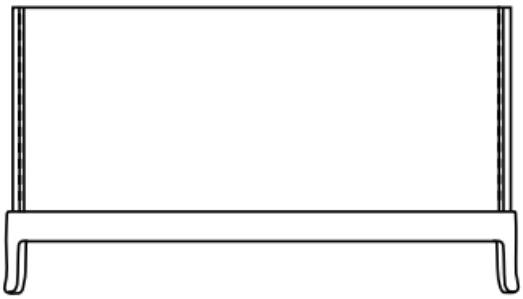
- Storage Case



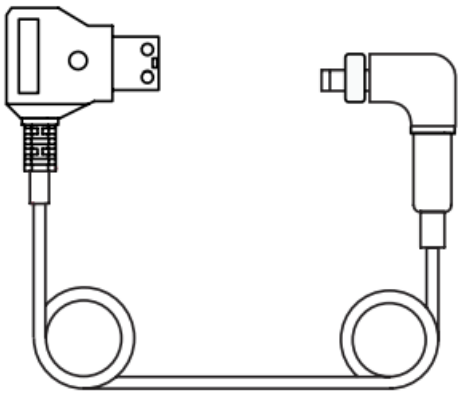
- Shoulder Strap



- Monitor Hood (with Bracket)



- D-Tap to Locking DC Cable



Note: The item list varies by product configuration.

Specifications

Device Mode	Transmitter mode	Receiver mode
Video Input Interface	HDMI 1.4b IN (Type-A female) 3G-SDI IN (BNC female)	/

Video Output Interface	HDMI 1.4b LOOPOUT (Type-A female)	HDMI 1.4b OUT (Type-A fe- male)
Antenna Interface	Two RP-SMA male interfaces	Two RP-SMA male interfaces
Power Input Interface	DC IN (2.0mm core socket)	DC IN (2.0mm core socket)
Power Output Interface	DC OUT (2.0mm core socket)	DC OUT (2.0mm core socket)
Headphone Jack	3.5mm	3.5mm
Upgrade Interface	USB-C (USB-2.0 OTG)	USB-C (USB-2.0 OTG)
Screen Size	5.5″ touchscreen	5.5″ touchscreen
Screen Resolution	1920×1080 pixels	1920×1080 pixels
Pixel Density	403 PPI	403 PPI
Aspect Ratio	16:9	16:9
Screen Brightness	1,000 nits	1,000 nits
Contrast Ratio	1000:1	1000:1
Power Input Voltage	DC IN: 7–16V 2.5A (nominal 12V) NP-F battery: 6.8V–8.4	DC IN: 7–16V 2.5A (nominal 12V) NP-F battery: 6.8V–8.4V
DC Output Voltage	8.4V±5%	8.4V±5%
Power Consumption	<16W	<13.6W
Net Weight	Approx. 400g (14.1oz) with external antennas excluded	Approx. 400g (14.1oz) with externa l antennas excluded
Dimensions	(L x W x H): 152mm x 96mm x 40mm (5.98″ x 3.78″ x 1.57″) with external antennas exclude d	(L x W x H): 152mm x 96mm x 40mm (5.98″ x 3.78″ x 1.57″) with external antennas ex- cluded
	HDMI IN:	/
	720p50/59.94/60 Hz	/
	1080i50/59.94/60 Hz	/

Input Video Resolution	1080p23.98/24/25/29.97/30/50/59.94/ 60 Hz	/
	3840x2160p23.98/24/25/29.97/30 Hz	/
	4096x2160p23.98/24/25/29.97/30 Hz	/
	SDI IN:	/
	720p50/59.94/60 Hz	/
	1080i50/59.94/60 Hz	/
	1080p23.98/24/25/29.97/30	/
	1080p50/59.94/60 Hz (3G-SDI level A)	/
	1080p50/59.94/60 Hz (3G-SDI level B)	/
Output Video Resolution	HDMI LOOPOUT (HDMI IN):	HDMI OUT:
	720p50/59.94/60 Hz	720p50/59.94/60 Hz
	1080i50/59.94/60 Hz	1080i50/59.94/60 Hz
	1080p23.98/24/25/29.97/30/50/59. 94/60 Hz	1080p23.98/24/25/29.97/30/5 0/59.94/60 Hz
Output Video Resolution	3840x2160p23.98/24/25/29.97/30 Hz	1080p50/59.94/60 Hz
	4096x2160p23.98/24/25/29.97/30 Hz	1080p50/59.94/60 Hz
	HDMI LOOPOUT (SDI IN):	HDMI OUT:
	720p50/59.94/60 Hz	720p50/59.94/60 Hz
	1080i50/59.94/60 Hz	1080i50/59.94/60 Hz
	1080p23.98/24/25/29.97/30/50/59.94/ 60 Hz	1080p23.98/24/25/29.97/30/5 0/59.94/60 Hz
	Note: When the device (in receiver mode) is connected to the Mars 4K transmitter, i f the HDMI input video resolution of the Mars 4K trans- mitter is 3840x2160p24/25/30 Hz, the HDMI output video resolution of the device is 1920x1080p24/25/30 Hz.	

Display Latency	<0.05s (test data when 1080p60 sig- nals are transmitted in a laboratory environment. The display latency varies by video resolution.)	/
Operating Frequency*	5.150–5.250GHz 5.250–5.350GHz 5.470–5.725GHz 5.725–5.850GHz	
Codec Technology	H.264	
Bit Rate	12Mbps	
TX Power	≤ 21+/-1.5dBm	
Transmission Latency	Approx. 0.08s (test data when 1080p60 signals are transmitted in a laboratory environment)	
LOS Range	Up to 450ft (150m) (test data in an unobstructed outdoor environ- ment free of interference)	
Bandwidth	20MHz	
Audio Format	Eight audio channels for the HDMI 1.4b	
Operating Temperature	–10℃ to 60℃ (14° F to 140° F)	
Storage Temperature	–40℃ to 60℃ (–40° F to 140° F)	

Support

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Hollyland Tech

Hollyland Tech

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support@hollyland.com

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HOLLYLAND

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Documents / Resources

	Hollyland Mars M1 Enhanced Wireless Transmitter and Receiver and Monitor [pdf] User Manual Mars M1 Enhanced Wireless Transmitter and Receiver and Monitor, Mars M1, Enhanced Wireless Transmitter and Receiver and Monitor, Transmitter and Receiver and Monitor, Receiver and Monitor

References

- Hollyland - Wireless Video Transmitter, Intercom, Microphone
- User Manual

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