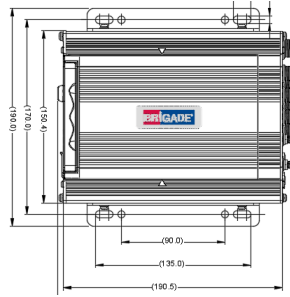
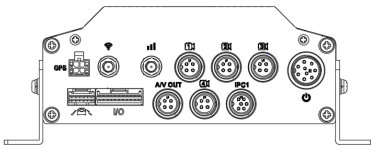


# Product Specification



Dimensions: mm

## Environmental Specifications:

- Shock Rating: 51G
- Vibration Rating: CMR:1.5G, SSD: 3.1G
- Operating Relative Humidity: 10% to 90%
- IP Rating: IP30
- Operating Temperature: -40°C to +50°C (CMR) / +70°C (SSD)
- Storage Temperature: -40°C to +70°C (CMR) / +85°C (SSD)

## Approved Standards:

- CE<sup>1</sup> - (Radio Equipment Directive 2014/53/EU, RoHS)
- UKCA - (Radio Equipment Regulation S.I. 2017/1206, RoHS)
- FCC - (System: 47 CFR Part 15 Subpart B & Modular: Wi-Fi: 47 CFR Part 15C, 15E, Mobile Network: 47 CFR Part 22H, Part 24E, Part 27 & Part 90)
- E-Mark<sup>1</sup> - (ECE Regulation 10 Rev 05)
- IC - (System: ICES-003 Issue 7 & Modular: Wi-Fi : RSS 247 Issue 2, Mobile Network: RSS-102, RSS-130, RSS-132, RSS-133, RSS-139, RSS-196)
- REACH

## Technical Specifications:

- Operating Voltage: 8.5 - 32 Vdc
- Max Current Consumption: ≤1.8A @ 12Vdc
- Max Inrush Current: 3.9A @ 12Vdc and 1.8A @ 24Vdc
- Power Consumption: ≤22 Watts @ 12Vdc
- TV System: PAL / NTSC / AHD
- Video Input: 4x channels for analogue cameras, 1x channel for IP camera
- Audio Input: up to 5x camera microphones
- Video Output: 1x Select Connector (male)  
Adapter cable AC-075 included for connection (female) to monitor
- Audio Output: 1x Channel
- Video Input/Output: 1.0 Vp-p / 75Ω
- Video Compression: H.264 / H.265
- Audio Compression: ADPCM, G711A, G711U
- Installation Direction: For CMR version horizontal mounting is recommended
- Housing Material: Aluminium and plastic, gunmetal grey
- Weight of Installed Unit: 2.1kg
- Dimensions (Without cables): 190mm (W) x 206mm (D) x 70mm (H)
- Power-up Time to Rec.: 60 seconds
- Display Split: Single, Quad or 9-Split
- Image Frame Rates: 1-25fps or 1-30fps camera dependent
- Image Resolution: PAL: WD1 (960x576), D1 (704x576), WHD1 (960x288), HD1 (704x288), WCIF (480x288), CIF (352x288)  
NTSC: WD1 (960x480), D1 (704x480), WHD1 (960x240), HD1 (704x240), WCIF (480x240), CIF (352x240)  
AHD: HD (1280x720), FULL HD (1920x1080)
- Recording Quality Setting: 1 to 8 (1 is the highest)
- Recording Duration (500GB, Quality 2, 20fps):  
Typical with H.264 215 hrs. (Res D1); 69 hrs. (Res 720p)  
Typical with H.265 331 hrs. (Res D1); 98 hrs. (Res 720p)
- Recording Duration (1TB, Quality 2, 20fps):  
Typical with H.264 431 hrs. (Res D1); 138 hrs. (Res 720p)  
Typical with H.265 662 hrs. (Res D1); 197 hrs. (Res 720p)
- Recording Duration (2TB, Quality 2, 20fps):  
Typical with H.264 862 hrs. (Res D1); 275 hrs. (Res 720p)  
Typical with H.265 1327 hrs. (Res D1); 394 hrs. (Res 720p)
- Storage: HDD 500GB / 1TB, SSD 1TB / 2TB (size 2.5")
- Mobile Standards<sup>2</sup>: 2G / 3G / 4G (G & GW models)

## Worldwide

## North America

Model No. (Part No.)	Worldwide	North America
	MDR-641-0.5-CMR (7063)	MDR-641G-0.5-CMR(NA) (7066)
	MDR-641G-0.5-CMR (7064)	MDR-641GW-0.5-CMR(NA) (7067)
	MDR-641GW-0.5-CMR (7065)	
	MDR-641-1-CMR(7068)	
	MDR-641G-1-CMR (7069)	MDR-641G-1-CMR(NA) (7071)
	MDR-641GW-1-CMR(7070)	MDR-641GW-1-CMR(NA) (7072)
	MDR-641-1-SSD (7073)	
	MDR-641G-1-SSD (7074)	MDR-641G-1-SSD(NA) (7076)
	MDR-641GW-1-SSD (7075)	MDR-641GW-1-SSD(NA) (7077)
	MDR-641-2-SSD (7078)	
	MDR-641G-2-SSD (7079)	MDR-641G-2-SSD(NA) (7081)
	MDR-641GW-2-SSD (7080)	MDR-641GW-2-SSD(NA) (7082)

- SIM Card (G & GW models): Standard size and Data Enabled
- Mobile Operating Bands: (G & GW models Ex-NA) FDD LTE, WCDMA/DC-HSDPA/HSUPA and GPRS/EDGE
- Mobile Operating Bands: (G & GW models NA) FDD LTE, WCDMA/DC-HSPA/HSUPA
- Wireless Standards: 802.11a/b/g/n/ac for 2.4GHz and 5GHz
- Wireless Security Standards: (GW models) WEP 64/128, WPA, WPA2, TKIP, AES, WAPI

## Features:

- Remotely Access MDR units using Wireless Connectivity and/or Mobile Network Connectivity for Evidence upload to Servers. Real-time alerts of HDD malfunctions and video loss. See MDR-Dashboard features below (G or GW models only)
- MDR-Dashboard 6.0 (full-featured software) has the following functions: Real-time preview, Multi-vehicle monitoring, playback of server and local video data, downloading data, evidence management, auto-download scheduling, user data management and an alarm centre. (Features are model dependant).
- Mobile applications for remote live view and snapshots on iOS and Android systems (G or GW models only)
- On-screen Display Graphical User Interface
- MDR control using USB Mouse and PC via browser (Ethernet)
- Video compression supports H.264 and H.265
- MDR-Player 6.0 is a simplified player to view clippings and directories
- MDR Server 6.0 enables Windows PC to become Wi-Fi Servers and/or 4G/3G servers (G or GW models only)
- Internal G-Sensor
- GPS for location, monitoring and tracking on playback
- Lockable and removable Mobile Caddy Unit (MCU). Supports encrypting feature for recorded data in MCU
- Caddy Unit plugs to PC via MCU reader and USB-A port (USB 3.0)
- Various Pre and Post Recording Settings
- Recording Modes: Normal, Alarm and Timer
- Multi-level GDPR compliant password protected access (Administrator; User)
- 8x Trigger Inputs, 2x Trigger Outputs and 1x 5V Power Output
- Built-in heater for storage media
- Diagnostic LED Status Panel
- USB-A port on front panel for upgrades, configuration and exporting data
- Network Protocols Supported: TCP/IP, UDP, DHCP, TFTP, FTP, HTTP/HTTPS, SNMP, ONVIF, RTSP

## Package Contents:

- 1 x MDR-641XX-X-XXX-CU Mobile Digital Recorder
- 1 x MDR-MOUSE-01 MDR Wired Mouse
- 1 x MDR-IO-03 Input / Output Cable
- 1 x MDR-PWR-02 Power Cable
- 1 x MDR-ANT-GPS-03 GPS Antenna
- 1 x AC-075 CMS Adapter Cable Female to Female
- 1 x MDR-ANT-MOB-01 Mobile Network Antenna (G & GW models)
- 1 x MDR-ANT-WIFI-01 Wi-Fi Antenna (GW models)
- 1 x MDR-KEY-01 Security Key
- 1 x MDR-BKT-02 Brackets
- 1 x MDR-BKT-FIX-02 Bracket Fixings
- 1 x MDR-600-SIG Short Installation Guide

## Optional Accessories:

- 1 x MDR-MCU-R-0X MDR MCU Reader for PC
- 1 x MDR-RP-0X Remote Status & Interface Panel with Panic Button
- 1 x MDR-AC-ACC-0X Adapter Cable for Remote Panel
- 1 x MDR-AC-HWU-0X Adapter Cable for Hazard Warning Unit

Technical: +44(0) 1322 420347  
www.brigade-electronics.com

[1] Worldwide Excluding North America models only  
[2] North American models do not support 2G

Specifications subject to change without notice

PS(Variou)s-02 MDR-641XX-X-XXX(XX)