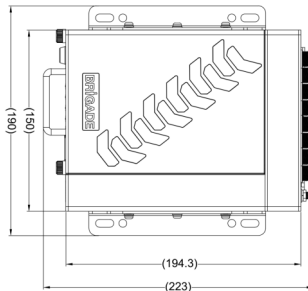
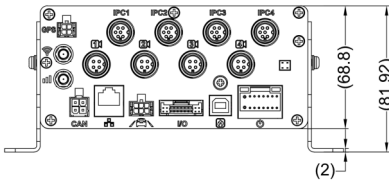


Product Specification



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:

- CE¹ - (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-Mark¹ - (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 - 32Vdc
- Max Current Consumption: ≤5.5A @ 12Vdc
- Max Inrush Current: 6.1A @ 12Vdc and 2.7A @ 24Vdc
- Power Consumption: ≤60 Watts @ 12Vdc
- TV System: PAL / NTSC / AHD
- Video Input: 4x channels for analogue cameras, 4x channels for IP cameras, via PON Switch addition 4x IP cameras
- Audio Input: up to 12x camera microphones
- Video Output: 1x Select Connector (female)
- Audio Output: 1x channel
- Video Input/Output: 1.0Vp-p / 75Ω
- Video Compression: H.264 / H.265
- Audio Compression: ADPCM, G711A, G711U
- Installation Direction: Internal HDD anti-vibration mount allows any mounting direction.
- Housing Material: Extruded aluminium, gunmetal grey
- Weight of installed Unit: 2.7kg
- Dimensions (without Cables): 190mm (W) x 223mm (D) x 82mm (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 1TB, SSD 0.5 / 1 / 2TB (size 2.5")
SD card 64GB
- Mobile Standards²: 2G / 3G / 4G (G & GW models)

Worldwide

- Model No.:
(Part No.)
- MDR-644-1-CMR (6570)
 - MDR-644G-1-CMR (6571)
 - MDR-644GW-1-CMR (6572)
 - MDR-644-0.5-SSD (6575)
 - MDR-644G-0.5-SSD (6576)
 - MDR-644GW-0.5-SSD (6577)
 - MDR-644-1-SSD (6580)
 - MDR-644G-1-SSD (6581)
 - MDR-644GW-1-SSD (6582)
 - MDR-644-2-SSD (6585)
 - MDR-644G-2-SSD (6586)
 - MDR-644GW-2-SSD (6587)

North America

- MDR-644G-1-CMR(NA) (6573)
- MDR-644GW-1-CMR(NA) (6574)
- MDR-644G-0.5-SSD(NA) (6578)
- MDR-644GW-0.5SSD(NA) (6579)
- MDR-644G-1-SSD(NA) (6583)
- MDR-644GW-1-SSD(NA) (6584)
- MDR-644G-2-SSD(NA) (6588)
- MDR-644GW-2-SSD(NA) (6589)

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

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 and Built-in Buzzer
- GPS for location, monitoring and tracking on playback
- Mirror or Alarm Recording onto SD card
- Lockable and removable Mobile Caddy Unit (MCU). Supports encrypting feature for recorded data in MCU and SD card
- Caddy Unit directly pluggable to PC via USB-B 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 12V Power Output
- CAN data support for up to 14x messages of J1939 to process, record, and view on MDR-Dashboard 6.0
- Built-in heater for main 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, SNTp, ONVIF, RTSP

Package Contents:

- 1 x MDR-644XX-X-XXX-CU Mobile Digital Recorder
- 1 x MDR-MOUSE-01 MDR Wired Mouse
- 1 x MDR-IO-02 Input / Output Cable
- 1 x MDR-PWR-01 Power Cable
- 1 x MDR-ANT-GPS-03 GPS Antenna
- 1 x MDR-ANT-MOB-01 Mobile Network Antenna (G & GW models)
- 1 x MDR-ANT-WIFI-01 Wi-Fi Antenna (W & GW models)
- 1 x MDR-USB-B-02 USB A to B Cable (3.0)
- 1 x MDR-KEY-01 Security Key
- 1 x MDR-BKT-01 Brackets
- 1 x MDR-BKT-FIX-01 Bracket Fixings
- 1 x MDR-600-SIG Short Installation Guide

Optional Accessories:

- 1 x MDR-RP-0X Remote Status & Interface Panel with Panic Button

Specifications subject to change without notice

PS(Various)-01 MDR-644XX-X-XXX(XX)

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