

Xignal M728(G4F)-IP Hybrid Mobile NVR

A hybrid recorder that takes eight analogue cameras and one to four IP cameras on the same box, nine to twelve channels in total. It is the model to reach for when a fleet is part way through moving to IP, and it adds a heated drive bay and an eight to ten second power-loss hold for vehicles that work in hard conditions.



9-12

TOTAL CHANNELS

8 analogue plus 1 to 4 IP

1080p

MAX RESOLUTION

15 fps analogue, or 720p at 30

2 TB

HARD DRIVE

2.5 inch, plus a 128 GB SD mirror

8-10 s

POWER-LOSS HOLD

UPS closes the file after a cut

<5 W

POWER DRAW

Wide voltage, 10 to 36 V DC

2.2 kg

WEIGHT

218 x 161 x 65 mm

MAIN FEATURES

- Hybrid recording: 8 analogue channels plus 1 to 4 IP cameras, 9 to 12 in total
- Analogue inputs take AHD, CVI, TVI or CVBS on existing vehicle cabling
- Heated drive bay, so the recorder starts and writes in harsh conditions
- UPS holds the recording for 8 to 10 seconds after a power failure
- Pre-allocated file system protects data integrity and prevents SD card fragmentation
- Hard disk for the main recording with an SD card kept as a mirror
- Real time monitoring over 3G or 4G, with iOS and Android apps
- Broadcast, intercom and text messaging to the vehicle
- RS485 drives a vehicle PTZ camera; RS232 takes a POS, fuel sensor or LED panel
- Firmware updates over USB, SD card or the air

Figures published by the manufacturer. Three things worth reading closely on this model. Its image quality scale runs 1 to 4 with 1 as the best, where the analogue-only recorders in the range run 0 to 7 with 0 as the best, so a setting does not carry across. Its sister model the M720(G4F)-IP publishes a built-in network switch and ONVIF support, and this model publishes neither, so treat switching and camera compatibility as a question for us rather than an assumption. And Wi-Fi appears in the manufacturer's own model title but has no row in its specification table. Where a figure reads Not published, the manufacturer does not state it, which is not the same as the feature being absent.

Specify it against your fleet

Tell us the vehicle type, how many cameras each vehicle needs, whether live 4G view is required, and how long footage has to be retained. We quote the recorder, the cameras, the installation and the server behind it as one system.

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FULL SPECIFICATIONS

CHANNELS AND RECORDING

Analogue channels	8 channels, AHD, CVI, TVI or CVBS
IP channels	1 to 4 IP cameras at 1080p
Total channels	9 to 12

Recording combinations	8 × 1080P at 15 fps plus 1 to 4 IP at 1080p · 8 × 720P at 30 fps plus 1 to 4 IP at 1080p · 2 × 1080P with 6 × 720P at 30 fps plus 1 to 4 IP
Also records	D1, HD1, CIF
Video compression	H.264
Image quality	1 to 4 levels, 1 is the highest
Video standard	PAL 100 f/s, CCIR625, 50 field · NTSC 120 f/s, CCIR525, 60 field
Bit rates	CIF 256 Kbps to 1.5 Mbps · HD1 600 Kbps to 2.5 Mbps · D1 800 Kbps to 3 Mbps, 8 quality levels
Recording modes	Automatic on power up by default, plus timed, alarm triggered and manual
Video input	Aviation connector, 1.0Vp-p, 75Ω
Video output	1 CVBS aviation, 1.0Vp-p, 75Ω. One channel full screen or an eight channel view
Preview	1 and 4 channel preview, with manual or alarm triggered full screen
On-screen overlay	Date, time and vehicle ID
AUDIO	
Audio input	8 channels, aviation plug
Audio output	2 channels. Headphone on the front panel, 4 pin on the back
Audio compression	G.726 at 8 KB/s
Broadcast	Broadcast, intercom and text messaging to the vehicle
STORAGE AND DATA INTEGRITY	
Main recording	2.5 inch HDD, up to 2 TB
Mirror recording	SD card, up to 128 GB
Heated drive bay	HDD heating, so the recorder starts in harsh conditions
Power-loss hold	UPS keeps recording for 8 to 10 seconds after a power failure
File system	Pre-allocated FAT32, which prevents SD card fragmentation
File format	H.264
Backup	Front panel USB, to a U disk or a hard disk
Firmware update	USB, SD card, or over the air
NETWORK AND POSITIONING	
Cellular	Built-in 3G: WCDMA, CDMA2000, GPRS, EDGE. 4G optional: TDD-LTE, FDD-LTE
Live view	Real time monitoring over 3G or 4G
Mobile app	iOS and Android remote monitoring
Positioning	Built-in GPS and BeiDou module
G-sensor	Available on the GPS, BeiDou and G-sensor extension module
Wi-Fi	Named in the manufacturer's model title but not itemised in its specification table
ONVIF and IP switch	Not published
ALARMS AND INTERFACES	
Alarm input	6 channels, plus 1 AD input and an impulse speed input, with alarm linkage
Alarm output	2 channels. Drives a light or sound alarm, or an oil or power cut off
Serial	2 × RS232 for a POS, fuel sensor or LED panel. 1 × RS485 for a PTZ camera
External devices	Oil sensor, temperature sensor, POS, bus station broadcaster, car OBD

PLAYBACK AND SECURITY		
Playback		Up to 4 channels at once, with stop, fast and slow
Playback speeds		2x, 4x, 8x and 16x, forwards and backwards
Search		By recording time or recording type
User accounts		Two levels, user and administrator, with separate passwords
SPECIFIED AT ORDER		
Voice call		Supported
TTS broadcast		Text to speech voice announcements
Serial expansion		LED advertisement panel, oil sensor, POS, bus station broadcaster, car OBD
Driver AI		Not published
POWER AND PHYSICAL		
Power input		Wide voltage, DC +10 V to +36 V
Power output		+12 V at 1.5 A, +5 V at 1.5 A
Power consumption		Under 5 W in normal operation
Power management		Timed and delayed shutdown
Operating temperature		-20 °C to +70 °C
Humidity		20% to 80%
Dimensions (D × W × H)		218 × 161 × 65 mm
Weight		2.2 kg
Operating system		Linux
Menu languages		English, Chinese, or customised
IP rating		Not published
Certifications		Not published