

C7200

High-performance Industrial Panoramic Camera



72 MP Panorama

12288 × 6144 high-resolution panoramic image output with richer pixel detail



1.1" Global Shutter CMOS

1.1" large-format CMOS sensor for improved SNR and global shutter eliminating rolling shutter effects



Open SDK

Dual SDK suite, including control SDK and parsing SDK, for flexible third-party integration



Self-Contained Storage and Antenna

Built-in 2 TB SSD drive and GNSS antenna simplify system integration and field deployment

► Highlight

The C7200 is a high-performance industrial panoramic camera designed for CHCNAV's AU20 MMS system. It delivers high-definition 360° panoramic imagery at 72 MP, with precise stitching and outstanding image quality. Featuring a rugged structure, internal and external storage compatibility, and open integration capabilities, it supports diverse field applications across mobile mapping, inspection, and third-party system integration.



SPECIFICATIONS

Specification	C7200
Camera Type	360° Spherical Camera
Panoramic Resolution	72 MP (12288 × 6144)
Total Resolution	12 MP (4096 × 3072) × 6
Sensor Size	1.1 inch (14.0 mm × 10.5 mm)
Pixel Size	3.4 μm
Shutter Type	Global Shutter
Dimension	280 mm × 240 mm × 200 mm
Weight	4 kg (with SSD drive, without cables)
Power Consumption	< 38 W
Optical Lens	6 high-quality lenses with 6.5 mm focal length
Projection Sphere Distance	Supports projection sphere ranging from 1 m to infinity
Focus Distance	Approx. 2 m; acceptable image clarity from 0.5 m to infinity
Panoramic FOV	360° × 154°
Single-Sensor FOV	Vertical: 129° / Horizontal: 94.6°
Pixel Spatial Accuracy	Average accuracy of 2 mm at 10 m
Time Synchronization	Synchronized via TTL GPS NMEA & PPS signals over GPIO
ISP Functions	Auto white balance, saturation adjustment, noise reduction, sharpening, color cast removal, etc.

ISO	100–3200
Gamma	0–4095
White Balance	Automatic
External Data Interface	USB 3.0 Type-C with locking screws
Frame Rate	Max.10 fps for external storage; Max.10 fps for internal storage
IP Rating	IP65
Operating Temperature	-20 °C to 50 °C
Storage Temperature	-30 °C to 65 °C
Humidity	Operating: 20%~80% RH (non-condensing) Storage: 20%~95% RH (non-condensing)
Image Output (SDK)	Projection modes: Panorama, Dome, Single Frame, Undistorted Single Frame Output Format: Compressed 8-bit JPG
Internal Storage Medium	2 TB SSD Drive
Power Port	General-purpose I/O port (external power supply required)
Input Voltage	12–24 V
Housing	Aluminum alloy with matte anodized finish, metallic gray
Firmware Upgrade	Remote upgrade
Camera Control	SmartGo or SDK

Disclaimer
The specifications are either theoretical values or measurements obtained by CHCNAV personnel under specific controlled conditions (see detailed descriptions). Actual results may vary due to individual product differences, firmware versions, use conditions, methods, and environments. CHCNAV strives to provide accurate information but does not guarantee that this document is free from technical, typographical, or display errors. Please refer to the actual product, and we recommend consulting in detail about the specific model and version before purchasing. CHCNAV reserves the right to modify this document without prior notice.

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