



Turret

Self-Contained Broadcast Video System

High Performance A/V Capture

Introducing the Marantz Professional Turret, a unique, easy-to-use and simple-to-install solution for users demanding a complete, high-performance A/V capture / broadcast system, all housed in a space saving, aesthetically pleasing footprint. Marantz Professional is a leading manufacturer of no-compromise recording solutions and draws upon a decades-long history of critically acclaimed engineering innovations. With the introduction of Turret, Marantz Professional's core engineering know-how fuses with a firm focus on value delivering a full HD webcam with built-in H.264 video compression, a high-quality 48kHz/16-bit USB condenser microphone with pop filter and an LED light ring (daylight-balanced, with both cool and warm filter accessories). Seeking premium A/V capture, ideal for streaming, broadcasting, podcasting, vlogging, Skype and much more? Look no further than Marantz Professional's Turret

Everything You Need

Take the hassle out of your streaming and broadcasting needs. The Marantz Professional Turret is a unique, all-in-one broadcast tool that gives any podcaster, gamer or live internet streamer high-quality components with a multitude of configurations for creating professional presentations. Compact and simple-to-configure, Turret is perfect on a desktop yet portable enough to take on location. Truly self-contained and capable of handling any streaming/podcast/gaming task without the need for additional equipment, Turret features a high-speed USB-C output for low latency capture and an internal USB hub for connecting any peripheral USB-compatible equipment; plus, there's even an on-board headphone amplifier for effortless audio monitoring capability. Everything the demanding streaming/broadcasting enthusiast needs is right here, in one convenient, high-performance package.

HD Camera Included

From optimal lighting conditions to resolution requirements, professional video capture demands the right tools for the job. Turret's integrated camera features an auto-focus design, Full HD 1080p video (up to 1920 x 1080 pixels) and automatic low-light correction, fully integrating all video-shoot essentials into one convenient device. Whatever your system preference, Turret is fully compatible with the latest version of Skype, Windows® 7, Windows 8, Windows 10 or later as well as Mac OS 10.6 or later (HD 720p on FaceTime for Mac or other supported video-calling clients; Full HD 1080p video recording with QuickTime Player), Chrome OS™ and Android v 5.0 or above (with supported video-calling clients). Make the complications of sourcing and configuring external lighting rigs a thing of the past - thanks to Turret's on-board LED Ring Light with a 100mm diameter, a colour temperature of 5600K (daylight-balanced), dimmable functionality and the included Cool / Warm / Diffused Filter Accessories (plastic, snap-on), ideal lighting is guaranteed every time regardless of the recording scenario.

Convenient Studio-Grade Capture

Recording audio needn't be a chore courtesy of Turret's fully integrated studio-grade microphone with adjustable boom arm. Combining a condenser design, a 14mm diameter back electret capsule, sensitivity of $-34\text{dB} \pm 2\text{dB}$ (0dB = 1V/Pa @ 1kHz), max SPL of 132dB (THD: 0.5% 1kHz) and a wide-range frequency response of 150 - 15kHz, you can be sure every subtle nuance of your delivery is captured, all in studio grade 48kHz/16-bit resolution. For the utmost in user convenience, the preamp is integrated with the microphone gain control on the tower, alongside a thoughtfully positioned headphone output with an independent level control - now users can directly monitor the microphone signal while recording/streaming, without the nuisance delay of monitoring through the computer's headphone output.

Monitoring Simplified

An extremely high-quality headphone amplifier is a critical part of any audio-capture system; without a pristine, articulate signal being sent to the headphones, the entire broadcasting/podcasting/gaming experience falls apart. The Turret hits the mark with a headphone amplifier of unimpeachable quality: THD <0.009%, Signal-to-Noise ratio >100dB and a frequency response of 20-20kHz. With an RMS power output of 130mW and an impedance of 30 ohms, the Turret headphone amplifier will drive virtually any headphone to extremely loud levels, with the utmost clarity and accuracy.

Total Control

Turret's central Tower has been meticulously engineered for ergonomic ease of use, containing all the main controls that the streamer/podcaster requires to manage the system. There is an LED light dimmer (with click/off at extreme left position), a headphone output jack, a headphone volume control, a Mic gain knob, a Mic mute button, and camera on/off switch. On the rear of the tower is a single USB-C jack for high-speed / low latency output to PC/MAC, (2) USB 3.0 jacks for connecting peripheral equipment and a 12VDC input jack. This space-saving, user-friendly layout fuses with a distinctive design making Turret *the* choice for easy and intuitive use, without compromising the high-performance users demand.

Turret Features

- Self-contained, freestanding broadcasting system
- Full HD webcam with H.264 video compression

- High-quality USB condenser microphone (48kHz/16-bit) with pop filter
- Dimmable LED light ring / daylight-balanced with Cool, Warm and Diffusion filter accessories
- USB-C output to computer for high-speed, low-latency capture / broadcasting
- Internal USB hub with 2 USB 3.0 ports
- Integrated headphone amplifier

Product Specifications

| | | |
|---------------------|---|--|
| Camera | | Multi-step auto focus |
| | | Diagonal field of view: 78° |
| | Optical resolution | 5MP native |
| | Frame rate | 30 fps/1080p, 60 fps/720p |
| | | Full HD 1080p video (up to 1920 x 1080 pixels) recording |
| | | H.264 video compression, M-JEG compatible |
| | | ON/OFF Switch |
| | | Automatic low-light correction |
| | | Compatible with Windows 7, 8, 10 & Mac OS 10.6 or later |
| | Operates in USB Video Device Class (UVC) mode | |
| | USB 2.0 – Class 2 Compliant Driver | |
| USB Microphone | Electret condenser capsule | 14mm diameter |
| | Sensitivity | -34dB ± 2dB (0db = 1V/Pa @ 1KHZ) |
| | Output impedance | 100 Ω ± 30% (@ 1kHz) |
| | Polar pattern | Cardioid |
| | Pad Switch | 0dB / -10dB |
| | Sample Rate | 32Hz / 44.1kHz / 48kHz @ 16-bit |
| | Frequency Response | 150 Hz - 15kHz |
| | Equivalent noise level | <12 dbA (A-weighted) |
| | Self noise | < 12dBA |
| | | USB 2.0 Class Compliant |
| | ON/OFF switch | |
| Headphone Amplifier | Frequency Response | 20 Hz – 20 kHz |
| | Output Power | 130mW |
| | | Level control |
| | | 3.5mm stereo output |
| | | Mix control to mix microphone audio with USB audio input |
| LED Light Ring | | 4" dimmable LED light ring (30) wide-angle white LEDs @ 5600K |
| Accessory Filters | | Diffused daylight Cool Warm |
| USB | USB 1 & 2 | Type A USB 3.0, 0.75A total available current between two ports for powering devices |
| | To PC | USB-C connector / USB 3.0 connection |

| | | |
|------------|----------------------------------|---|
| | USB Audio In | Class 2 compliant speaker device for audio to be monitored in headphone output – set by user in the compute |
| | Microphone Auxiliary Output | Fixed line-level output on 3.5mm TRS Jack |
| Dimensions | With Arm fully in | 16.7" (424mm) Width including base (max) |
| | With Arm fully out | 33.9" (860mm) Width including base (max) |
| | Base Dimensions (width x length) | 6.85" x 8.04" (174mm x 204mm) |
| | Height with Extension | 19.6" (498mm) |
| | Height without Extension | 17.7" (449mm) |
| | Weight | 7.7lbs (3.5kg) |
| Power | | AC-DC Power Supply |
| | | 100 ~ 240 VAC compatible |
| | | 12 VDC @ 1 Amp output |

User Summary & Target Demographic

Due to its diverse feature specification for a wide range of usage scenarios, the Turret encompasses an expansive target demographic ranging from podcasters, broadcasters, gamers, live internet streamers and more. This all-in-one free-standing broadcasting system with a high-quality HD camera, a cardioid microphone, a compact pop filter and seamless connectivity directly into a computer, provides these target markets with a cost effective, portable and above all, versatile live streaming solution for a diverse spectrum of visual and sound capture scenarios.

Additional uses include:

- Conferences
- Online Lecturing/Masterclasses
- Skype meetings
- Reviewers
- Vocalists