

Product Description

CyGOS Security Modules

CyGOS Security Modules are used to create a Distributed IP Video and Audio Surveillance System that is embedded inside existing fluorescent ceiling light fixtures to provide comprehensive image and optional sound monitoring / intercom capability that can be inconspicuous. No exposed camera, wiring or mounting is required.

Each surveillance node embedded inside a light fixture contains: a CyGOS Transmitter Module, a Sensing Module with a selectable field-of-view lens, and optional audio devices.

The existing power lines, powering the light fixture, are used as the IP digital communication system to transmit IP video and audio to the receiver with little or no modifications required to the existing infrastructure.

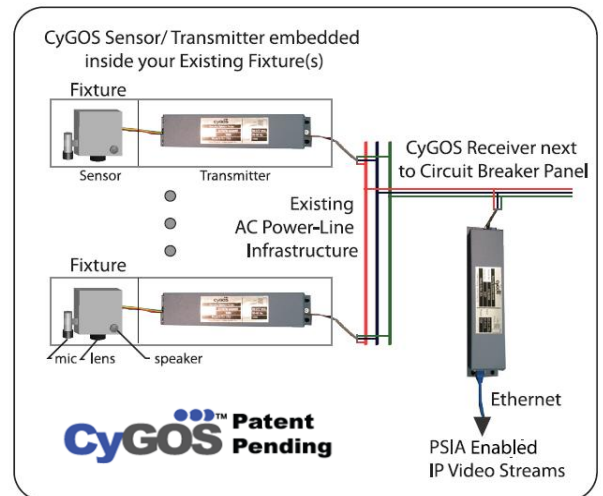
The CyGOS Receiver Module receives the transmitted video and audio from the AC power lines at the circuit breaker box and converts this digital information into standard IP Ethernet CAT 5 cables to be connected to a PC based CyGOS Video Server. The video output is PSIA enabled IP video streams that can be integrated with 3rd party security system platforms.



The drawing below illustrates the connections of the CyGOS Sensor/Transmitters inside a light fixture communicating to the CyGOS Receiver over the existing AC power lines.

PRODUCT FEATURES

- Transmitter Module embeds neatly into light fixtures
- The sensor assembly is retrofitted into the light fixture
- Built in IP video inside light fixture
- Video is in Color
- Microphone and speaker inside the light fixture (future option)
- The installation is tamper resistant inside the light fixture
- The installation in the fixture is inconspicuous
- No impact on the infrastructure of the rooms or building
- Two-way communication system (with future audio option)
- Edge video recording in Transmitter Module (future option)
- Video analytics in Transmitter Module (future option)
- NO NEW cabling or wiring needed.
- Power supplied by existing AC power lines to light fixture
- Existing AC power lines converted to a IP network
- Standard definition IP video: NTSC format, 720x480 px; up to 30fps
- H.264 video compression video
- Video output is PSIA enabled IP video steam
- Built in level-3 routing
- 128-bit AES encryption



Cyber Group is a member of the Physical Security Interoperability Alliance (PSIA),

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TYPICAL APPLICATIONS FOR CYGOS SECURITY MODULES

- Assisted Living Facilities
- Day Care Facilities
- Government Facilities
- Hospitals/Medical
- Jails/prisons
- Office Buildings
- Parking Garages
- Parking Lots
- Restaurants
- Retail
- Schools and Colleges
- Warehouses/storage facilities

TECHNICAL SPECIFICATIONS

PERFORMANCE OF CURRENT MODEL (embedded in fluorescent light fixtures)

Video output compression	H.264
Video output format	NTSC format, 720x480 pixels
Video frame rate	Adjustable up to NTSC standard D1, ~30fps
Video image	Color
Video Field-of-View	Selectable from 13.8, 21, 28, 40, 53, 78, 95.4, 120, 130, 140, 150 or 160 Degree (Diagonal)
Max distance between nodes	150 feet of AC power line
Data security over power line	128-bit AES encryption
Video Output	PSIA enabled IP video stream and compatible with most surveillance monitoring software
AC power line bandwidth	Up to 60 Mbs under favorable conditions
Video stream bandwidth	Up to 2.0 Mbs with communications overhead at 30 fps with good image quality

GENERAL

AC Power line voltage	110 to 277 VAC
Input power requirements	10 Watts
Operating temperature	14°F ~ 122°F (-10°C ~ +50°C)
Storage temperature	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%

MECHANICAL

Module dimensions	Base Plate for mounting: 11.0" L x 2.125" W with mounting holes 1.375" apart Enclosure: 9.5" L x 2.25" W x 1.75" H
Module Weight	25.8 oz
Camera dimensions	Enclosure: 1.5" L x 1.5" W x 1.5" H

FUTURE OPTIONS

Audio inside light fixture	Microphone – room monitoring of sounds and voice Speaker – announcements from monitoring room Microphone & Speaker – 2 way communication
Access Control	Digital input and output in Tx Module
Video recording	Edge recording capabilities in the Tx Module
Video Analytics	Motion detection and others in Tx Module
Electrical fixtures	Other existing electrical fixtures

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