CAMSAT
www.camsat.com

# CAM 5816h

**8-channel 5.8 GHz**
**Wireless Video/Audio Transmitting-Receiving Kit**

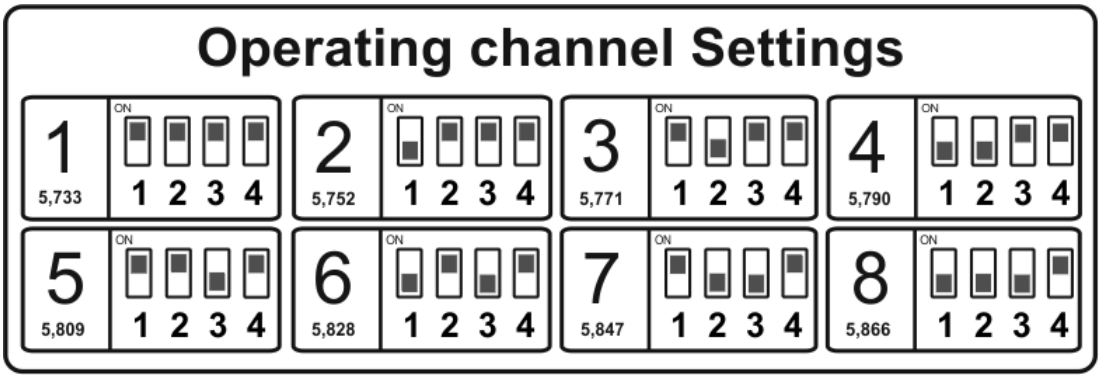
Designed for wireless PAL or NTSC video signal transmission over the radio-link on ISM 5.8 GHz band. Supports up to 8 channels within 5725 to 5875 MHz frequency band. Each of 8 channels has factory defined operating frequency. It has one video BNC inputs/outputs and two audio inputs/outputs.

**Contents of CAM5816h package.**

- Video/Audio transmitter with integrated antenna
- Video/Audio receiver with ipanel directional antenna.
- Mounting bracket x 2 pcs.
- User`s Manual
- Conformity Declaration

**Specyfications:**

| | |
|---|---|
| Operating frequency | 5,725 ÷ 5,875 GHz |
| Power | < 14dBm |
| Modulation | FM |
| VideoInput | - 75 Ω / AUDIO - 600 Ω |
| Antenna Input | SMA M/ 50 Ω |
| Power supply | 9 ÷ 14V / 500mA DC |
| Operating temperature | -20 °C ÷ + 55 °C |
| Dimensions | Tx:125x105x60; Rx:164x164x80 |
| Weight | 0,4 kg x 2 pcs |



**Assembly:**

Mount the device using U-bolts to stable mast or bracket. Place the antenna in direction of transmitters. Gently screw the antenna cable into SMA antenna socket. When screwing the outer rigid wire antenna pay attention not to damage the SMA socket on the receiver. Connect power to the receiver with a constant voltage of 12V DC and efficiency of at least 500mA. Connect the signal cables to the BNC video/ audio and power supply as described. Set the channel number and connect the power supply to the first transmitter. Set the same channel number on the receiver, set or adjust the antenna and accurately validate the transfer. If the transmission is correct start next transmitter in the same way.

(**Note:** a „line of sight" is required for the transmitting antenna and the antenna of receiving part).

**RECOMMENDATIONS:**

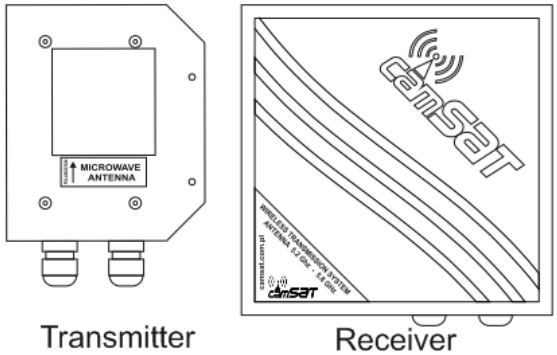
- larger systems which consist of several kits should be run and set up one after another, the next kit should be connected to power supply only after the precise setting of previous kit
- due to interferences it is not not recommended to use different pulse power supply adaptors than stabilized,min.12V/05A
- we do not recommend connecting the receiver and transmitter to one common power supply adaptor. Allowed is one common power supply adaptor for several transmitters and multiple receivers

**Connectors:**

- GND – audio signal minus
- A-L - Audio left channel
- A-R - Audio right channel
- GND – power minus
- +12V - power plus; 9-13V, minimum 500mA

(**Note:** due to a RF interference, a switching-mode power supply adaptor is not recommended for transmit/receive modules.)

Transmitting/receiving antenna view:




Transmitter Receiver

**Manufacturer:**
CAMSAT Gralak Przemysław
Ul. Ogrodowa 2a
86-050 Solec Kujawski
*Offer and infrmation:* www.camsat.com
*Service:* serwis@camsat.com.pl

# DEKLARACJA ZGODNOŚCI

*DECLARATION OF CONFORMITY*

Niżej podpisany, reprezentujący firmę:
*The undersigned, representing the manufacturer:*

**CAMSAT** Przemysław Gralak
ul. Ogrodowa 2a 86-050 Solec Kujawski
Polska

niniejszym deklaruję z pełną odpowiedzialnością, że urządzenie:
*herewith declares under our sole responsibility that the product:*

Nazwa urządzenia: Bezprzewodowy System Transmisji Video na pasmo ISM 5,8GHz
*Product name:* *Wireless Video and Audio Transmission System of 5.8 GHz*
Typ: **CAM5816h**
*Model:*

| **Wymagania zasadnicze:**<br>**- artykuł dyrektywy 1999/5/WE**<br>*Essentials requirements*<br>*- article of Directive 1999/5/EC* | **Zastosowane normy**<br>*Applied Standards* | **Oceniane dokumenty**<br>*Evidence Documentation* | **Ocena**<br>*Result* |
|---|---|---|---|
| Kompatybilność Elektromagnetyczna – art.3.1b<br>*Electromagnetic compatibility* | ETSI EN 301 489-1 V1.6.1<br>ETSI EN 301 489-3 V1.4.1 | Sprawozdanie z badań:<br>*Test Report:*<br>IŁ Nr 01500309/4 | Zgodność<br>*Conformity* |
| Efektywne wykorzystanie Zasobów częstotliwości – art.3.2<br>*Effectively RF spectrum use* | ETSI EN 300 440-1 V1.4.1<br>ETSI EN 300 440-2 V1.2.1 | Sprawozdanie z badań:<br>*Test Report:*<br>IŁ Nr 01500309/2 | Zgodność<br>*Conformity* |

Zakres przestrajania częstotliwości nadajnika i odbiornika: 5725 MHz – 5875 MHz
*Transmitter and receiver frequency alignment range:*
Moc promieniowana nadajnika: ≤25,0 mW (14 dBm)
*Equivalent isotropically radiated power:*

**Jednostka notyfikowana biorąca udział w ocenie zgodności:**

INSTYTUT ŁĄCZNOŚCI
ul. Szachowa 1, 04-894 Warszawa
Numer jednostki notyfikowanej: 1471
*Notified Body number*: 1471

Wydane przez Instytut Łączności potwierdzenie zgodności nr 013/2010 oraz sprawozdania z badań dostępne są do wglądu w siedzibie firmy CAMSAT Gralak Przemysław.

Osoba odpowiedzialna: **Przemysław Gralak**
*Name of responsible person*
Stanowisko: **właściciel/owner**
*Position:*
Podpis/Signature

Miejscowość i data:
Solec Kujawski 23.08.2010r

**General terms and conditions of a warranty**

**Camsat company gives a warranty of 24 months for transmission sets of the following series:**
TCO 5807, CAM 5816, CDS 5021, CD04, CD06, CDS-5IP

1. In case of detecting incorrect work of a device, before giving the device to the service, it is necessary to make sure that everything was done in accordance with the instruction manual.
2. In case of giving or sending the faulty device to be repaired, it is indispensable to enclose a detailed description in the written form including faulty action of the device with taking into consideration work environment and the way in which they can be seen.
3. One can use the warranty if he shows the proof of purchase (a receipt) with the claimed device including the purchase date and a description of the damage.
4. The warranty repair includes only damages resulting from causes included in the sold device.
5. The warranty repair will be made in the shortest time possible not exceeding 14 days counting from the date of accepting the device to be repaired in the service. In case of a necessity to import parts, the repair date can be exceeded. After making the repair, the warranty period is exceeded by the time of repair.
6. The guarantor is not responsible for losing configuration settings of the device resulting from the repair of the device or its damage.
7. The guarantor can refuse making the warranty repair or completely renounce from the warranty in case of stating that seals on the devices or subsystems included in it are broken.
8. All remarks concerning the service and resulting from the warranty are made only in the service of the Camsat company.