

## THINKWARE X700

# THINKWARE X700 Dual Dash Cam User Manual

Model: X700

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your THINKWARE X700 Dual Dash Cam. Please read this manual thoroughly before using the product to ensure proper functionality and to maximize your user experience. The THINKWARE X700 is designed to record high-quality video footage from both the front and rear of your vehicle, offering enhanced security and peace of mind.

## 2. PACKAGE CONTENTS

Verify that all items are present in the product packaging:

- X700 Dash Cam (Main Unit)
- Rear View Camera
- 3M Windshield Mount with extra adhesive tape
- 12V Power Cable
- Adhesive Cable Clips
- THINKWARE 16GB microSD card with SD adapter (User Manual stored on microSD card)
- Quick Start Guide/Warranty Information
- Rear View Camera Connecting Cable
- GPS Antenna

## 3. PRODUCT OVERVIEW

Familiarize yourself with the components of your THINKWARE X700 Dash Cam.



Image 3.1: Overview of the THINKWARE X700 Dual Dash Cam system, showing the main unit with its 2.7-inch display, the front camera lens, and the separate rear camera unit.



Image 3.2: Front perspective of the X700 main unit, highlighting the primary camera lens and the 'THINKWARE' branding.



Image 3.3: Side view of the X700 main unit, displaying the DC-IN power input, GPS antenna port, and V-IN port for the rear camera connection.



Image 3.4: Opposite side view of the X700 main unit, featuring the microSD card slot and the power (PWR) switch.



Image 3.5: Bottom view of the X700 main unit, showing regulatory marks and the model name 'X700'.



## 4. SETUP AND INSTALLATION

### 4.1. Preparing the MicroSD Card

1. Insert the included 16GB microSD card into the dash cam's microSD slot (refer to Image 3.4).
2. It is recommended to format the microSD card periodically using the dash cam's menu or the THINKWARE PC Viewer to ensure optimal performance and prevent data corruption.

### 4.2. Mounting the Front Dash Cam

1. Clean the chosen area on your windshield thoroughly. Ensure it is free of dust and grease.
2. Attach the 3M adhesive mount to the dash cam.
3. Peel off the protective film from the 3M adhesive and firmly press the dash cam onto the windshield, ideally behind the rearview mirror for an unobstructed view. Hold for at least 30 seconds.
4. Adjust the camera angle to ensure the road ahead is centered in the view. You can use the 2.7-inch LCD touchscreen for live view alignment.



Image 4.1: The X700 main unit mounted on the interior side of a vehicle's windshield, positioned to capture the road ahead.



Image 4.2: The X700 main unit mounted on the exterior side of a vehicle's windshield, showing its discreet placement.

### 4.3. Installing the Rear View Camera

1. Mount the rear camera on the rear windshield using its adhesive, ensuring a clear view of the road behind.

2. Connect the rear camera to the main dash cam unit using the provided Rear View Camera Connecting Cable. Route the cable discreetly along the vehicle's headliner and pillars.

#### **4.4. Connecting the GPS Antenna**

1. Connect the GPS antenna to the GPS port on the main dash cam unit (refer to Image 3.3).
2. Mount the GPS antenna on the windshield, ensuring it has a clear view of the sky for optimal signal reception.





Image 4.3: The X700 main unit and the connected GPS antenna mounted on the vehicle's windshield.

#### 4.5. Power Connection

1. Connect the 12V Power Cable to the DC-IN port on the dash cam (refer to Image 3.3).

2. Plug the other end of the 12V Power Cable into your vehicle's cigarette lighter socket.
3. For optional parking surveillance modes, hardwiring or an OBD II cable (sold separately) is required for continuous power when the vehicle is off.

## 5. OPERATING INSTRUCTIONS

### 5.1. Powering On/Off

The dash cam will automatically power on and begin continuous recording when connected to power and the vehicle ignition is on. To manually power off, use the PWR switch (refer to Image 3.4).

### 5.2. Recording Modes

- **Continuous Recording:** The dash cam records continuously in 1-minute segments. Older files are overwritten when the memory card is full.
- **Event Recording:** In the event of an impact detected by the 3-axis G-Sensor, the dash cam automatically saves a 20-second video clip (10 seconds before and 10 seconds after the impact) to a protected folder, preventing it from being overwritten.
- **Manual Recording:** Press the manual recording button on the device to save a specific moment. This will save a 20-second clip (10 seconds before and 10 seconds after the button press) to a protected folder.

### 5.3. Parking Surveillance Modes (Requires Hardwiring/OBD II Cable)

When properly hardwired, the X700 offers advanced parking surveillance:

- **Motion Detection Recording:** Records 20-second clips when motion is detected around the vehicle.
- **Impact Detection Recording:** Records 20-second clips when an impact is detected while parked.
- **Time Lapse Recording:** Records at 2 frames per second (fps) to cover longer periods, then converts to normal speed for playback.
- **Energy Saving Mode:** Reduces power consumption by putting the dash cam into a low-power state and only waking up to record impacts.

### 5.4. Advanced Driver Assistance System (ADAS)

With the included GPS antenna, the X700 provides ADAS features to enhance driving safety:

- **Forward Collision Warning System (FCWS):** Alerts the driver of potential forward collisions.
- **Lane Departure Warning System (LDWS):** Alerts the driver if the vehicle drifts out of its lane.
- **Front Vehicle Departure Warning (FVDW):** Notifies the driver when the vehicle ahead starts to move from a complete stop.

### 5.5. GPS Features

The GPS antenna enables:

- **Road Safety Camera Alerts:** Provides audio and visual warnings for upcoming red light cameras and speed cameras.
- Recording of vehicle speed and location data for playback.

### 5.6. LCD Touchscreen Operation

The 2.7-inch LCD touchscreen allows for:



- Instant video playback.
- Navigation through menus and configuration of settings.
- Live view for precise camera alignment.

## 6. MAINTENANCE

### 6.1. MicroSD Card Management

Regularly format the microSD card (e.g., once a month) to maintain optimal recording performance and prevent file errors. This can be done via the dash cam's menu settings.

### 6.2. Firmware Updates

Periodically check the THINKWARE website for the latest firmware updates. Updating the firmware can improve performance, add new features, and resolve known issues. Instructions for updating are typically provided with the firmware download.

### 6.3. Cleaning

Use a soft, dry cloth to clean the dash cam's lens and screen. Avoid using harsh chemicals or abrasive materials that could damage the surfaces.

## 7. TROUBLESHOOTING

- **Dash Cam does not power on:** Ensure the 12V power cable is securely connected to both the dash cam and the vehicle's power outlet. Check the vehicle's fuse for the power outlet.
- **Recording issues:** Format the microSD card. If issues persist, try a new THINKWARE-approved microSD card. Ensure the card is inserted correctly.
- **GPS signal not acquired:** Ensure the GPS antenna is connected and mounted with a clear view of the sky. Move the vehicle to an open area away from tall buildings or dense foliage.
- **ADAS alerts are too frequent/infrequent:** Adjust the sensitivity settings for FCWS, LDWS, and FVDW in the dash cam's menu.
- **Screen malfunction:** If the screen is unresponsive or displays abnormalities, try restarting the device. If the problem continues, refer to the warranty information for support.
- **Overheating:** The dash cam has a self-protection shutdown function if temperatures exceed a certain level. Ensure the device is not exposed to direct sunlight for extended periods in extreme heat.

## 8. SPECIFICATIONS

| Feature    | Detail |
|------------|--------|
| Model Name | X700   |

|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| Item Model Number        | TWR-X700D16CG                                                                      |
| Video Capture Resolution | 1080p Full HD (Front & Rear)                                                       |
| Frame Rate               | 30fps                                                                              |
| Field of View            | 142.7 Degrees                                                                      |
| Display                  | 2.7" LCD Touchscreen                                                               |
| G-Sensor                 | 3-Axis Accelerometer                                                               |
| GPS                      | External GPS Antenna (Included) for Speed, Location, and Road Safety Camera Alerts |
| Connectivity Technology  | Auxiliary                                                                          |
| Mounting Type            | Adhesive Mount                                                                     |
| Product Dimensions       | 4 x 1.1 x 2.1 inches                                                               |
| Item Weight              | 3.84 ounces                                                                        |
| Power Source             | 12V Power Cable (Included), Hardwiring/OBD II Cable (Optional for Parking Mode)    |
| Battery                  | 1 Product Specific battery required                                                |

## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the 'Quick Start Guide/Warranty' document included in your product package. THINKWARE is committed to providing reliable products and support. For further assistance, visit the official THINKWARE website or contact their customer service.

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### Related Documents - X700

|                                                                                     |                                                                                                                                                                                                                                                                                                                                  |
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## FAQ's

- Compatible SD Cards**  
Please be advised that Thinkware memory cards are highly recommended as it is the only brand that is guaranteed to be compatible with our dashcams.

Even though non-Thinkware brand memory card meet the microSD card requirements, each manufacturer uses slightly different file settings and systems that varies between batches. As such we cannot guarantee the performance or recommend non-Thinkware brand memory cards with our products.

### SD Capacities by Model:

F50-64GB  
F70-64GB  
F100-64GB  
F200-128GB  
FA200-128GB  
F750-64GB  
F770-64GB  
F800-64GB

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THINKWARE X800 2CH

THINKWARE XE80 viene a sustituir al modelo más antiguo X700, equipado con los últimos sensores de imagen Sony Starvis IMX335, los cuales permiten grabar imágenes frontales 2K QHD 1440p nítidas e imágenes traseras Full HD 1080p durante el día y la noche a 30 FPS.

### FUNCIONES PRINCIPALES

- Grabación continua y simultánea de la cámara delantera en 2XHD y trasera FULL HD.
- Pantalla LCD LTP de 2,7" en la que se podrá mejorar y configurar la cámara al completo.
- Vision de videos en PC (WINDOWS/MAC).
- Actualizaciones de firmware a través de PC, en la propia tarjeta micro sd.
- Descarga de videos en PC.
- Almacenamiento de videos en diferentes carpetas dependiendo del tipo de grabación.
- Modos de grabación continua, de incidentes, manual, aparcamiento\*, detección de movimiento\* y grabación de audio.
- Super vision nocturna 2X.
- Modo ahorro de energia.
- Actividad de redes, con base de datos actualizable gratuitamente\*\*.
- Sistema de ayuda a la conducción (ADAS).
- Advertencia de cambio de carril (LDWS).
- Advertencia de frenado de emergencia (FCWS).
- Advertencia de salida del vehículo de la carretera (PCWS).
- Sistema de protección contra las altas temperaturas.

\*\* Para esta función es necesario la antena GPS externa opcional.

## ESPECIFICACIONES TÉCNICAS

- Cámara frontal: Sony 5.14 MP / Cámara trasera: Sony 2.13 MP.
- Ángulo de visión diagonal 150° / cámara trasera 160°.
- Capacidad de la tarjeta micro sd: 16 / 32 y 64 GB.
- Sensor acelerómetro 1G.
- Antena GPS externa (opcional).
- Alimentación de trabajo 12/24 V con Súper condensador incorporado.
- Led de estado.
- Altavoz interno para guía de voz y avisos de alarmas.
- Temperatura de funcionamiento: -20°-60°C.



X1000 — Dash Cam

THINKWARE

THINKWARE X1000, nuevo modelo y actualizado respecto a su hermana pequeña, la X700. Es capaz de grabar en 2K QHD de la ms alta calidad a travs del ltimo sensor de imagen Sony Starvis. Con el nuevo sistema HDR y Super Night Vision 3.0, esta cámara proporciona los mejores videos de los vdeos sin importar la hora del día. Este modelo permite la conexión del módulo opcional "RASCAR". Gracias a su pantalla táctil de 3.5", permite ver los videos y la configuración sin necesidad de extraer la micro SD.

**FUNCIONES PRINCIPALES**

- Grabación conjunta y simultánea de la cámara delantera en 2K QHD y trasera 2K QHD.
- Pantalla táctil LCD IPS de 3.5" en la que se podrá manejar y configurar la cámara al completo.
- Vídeo de vídeo en PC (WINDOWS/MAC).
- Descarga de vídeos en el PC.
- Actualizaciones de firmware a través de PC, en la propia tarjeta micro sd.
- Almacenamiento de vídeos en diferentes carpetas dependiendo del tipo de grabación.
- Modos de grabación: continuo, de incidentes, manual, despertador\*, detección de movimiento\* y grabación de audio.
- Con el sensor opcional "RASCAR", conseguimos un campo más amplio respecto al ángulo de visión de la cámara, para que empiece a grabar los vídeos anticipadamente.
- Super visión nocturna 3.0.
- Modo ahorro de energía.
- Activador de radar, con base de datos actualizable gratuitamente\*\*.
- Sistema de ayuda a la conducción (ADAS).
- Advertencia de cambio de carril (LDCWS).
- Advertencia de frenada de emergencia (FCWS/LFCWS).
- Advertencia de salida del vehículo delantero (FVDW).
- Sistema de protección contra las altas temperaturas.

\* Para la función de grabación parking y detección de movimiento es necesario realizar la instalación con el cable específico "hardwiring cable".

\*\* Para esta función es necesario la antena GPS externa opcional.

**ESPECIFICACIONES TÉCNICAS**

- Cámara Frontal: Sony 5.14 MP / Cámara trasera: Sony 5.14 MP.
- Ángulo de visión 150°.
- Capacidad de la tarjeta micro sd: 16/32/64 y 128 GB.
- Sensor acelerómetro 3G.
- Antena GPS externa (opcional).
- Alimentación de trabajo 12/24 V con Súper condensador incorporado.
- Led de estado.
- Altavoz interno para guía de voz y avisos de alarmas.

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X1000 Dash Cam THINKWARE X1000, nuevo modelo y actualizado respecto a su hermana pequeña, la **X700**. Es capaz de grabar en 2K QHD de la ms alta calidad a travs del ltimo sensor de imagen Sony Starvis. Con el nuevo sistema HDR y Super Night Vision 3.0, sta cmara proporciona los mejores videos de tus vi...

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X700

THINKWARE

X700 aumenta al máximo las capacidades de vigilancia delantera y trasera del vehículo. Una Dash Cam de 2 canales (con entrada de cámara trasera). X700 graba videos en alta gran angular a 142.7° y sin puntos ciegos incluso durante la noche. Tiene una pantalla táctil LCD de 2.7 pulgadas que le permite ver los grabaciones almacenadas y obtener un acceso rápido a su configuración. En caso de accidente o colisión, la detección de incidentes con sensor G del X700 almacena y protege de forma segura las imágenes de impacto.

**Características:**

- 1080 Sensor de Estabilidad Sony Exmor CMOS.
- Pantalla LCD Táctil 2.7".
- Super Visión Nocturna.
- Cámara de Seguridad (GPS Disponible con una Antena extra).
- Time Lapse (Solo en Modo Parking).
- Sistema de Ayuda en Carretera (LDCWS, FCWS, LFCWS, FVDW).
- Firmware Libre 2.0.
- Sensor G de incidentes (Acceletransmit).
- Visualización en PC Disponible (Windows & Mac OS).
- 142.7° de Ángulo de Visualización (Diagonal).
- Permite MicroSD hasta 64GB.

**Características Técnicas:**

- Number of Channels: 2
- Resolution: Full HD 1080P (Front) / Full HD 1080P (Rear)
- Frames Per Second: 30
- Camera Angle: 142.7° (Front) / 142.7° (Rear)
- Image Sensor / Camera Type: Front: Sony EXMOR / 2.13M Pixels / 1/2.8" CMOS
- Rear: Sony EXMOR / 2.13M Pixels / 1/2.8" CMOS
- Dimensions / Weight: 58M x 51 x 4 x 28.3mm / 30g
- Video Enhancement Technology
- Wide Dynamic Range: Yes
- Noise Reduction: Yes
- Advanced Video Clear: Yes
- WIFI: Yes
- GPS: Yes (Requires GPS ANT)
- G-Sensor: Yes
- Display Screen (Size): 2.7" Touch Screen
- Super Capacitor / Battery Super Capacitor
- High Temperature Protection: Yes
- Operating Temperature: -20°C to +70°C
- Storage Temperature: -20°C to +70°C
- Power Input: DC 12/24V
- Power Consumption: 2.0A 5.5W / 1.0A 3.3W (max)
- Voltage Detection / Cut OFF: Yes

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**X700** - DashCam **X700** aumenta al mximo las capacidades de vigilancia delantera y trasera del vehculo. Una Dash Cam de 2 canales con entrada de cmara trasera , **X700** graba video en alta, gran angular a 142.7 y sin puntos ciegos, incluso durante la noche. Tiene una pantalla tactil LCD de 2.7 pulgadas qu...

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Multiplexer Box TWA-MB100

Get total coverage by transforming your Thinkware Dash Cam into a multichannel surveillance system with Multiplexer TWA-MB100 accessory

**Key Features** Compatible dash cams: T200 PRO, F790, and X700

- 5-in-1** Transform your Thinkware dash cam into a 5-channel surveillance system with the Multiplexer TWA-MB100 accessory. It can be used as a 1-channel dash cam, a 2-channel dash cam, a 3-channel dash cam, a 4-channel dash cam, or a 5-channel dash cam.
- 1080P** 1080P resolution, 30FPS, 142.7° FOV, 1/2.8" CMOS sensor, 5.14MP resolution, 30FPS, 142.7° FOV, 1/2.8" CMOS sensor.
- 5-in-1** Transform your Thinkware dash cam into a 5-channel surveillance system with the Multiplexer TWA-MB100 accessory. It can be used as a 1-channel dash cam, a 2-channel dash cam, a 3-channel dash cam, a 4-channel dash cam, or a 5-channel dash cam.

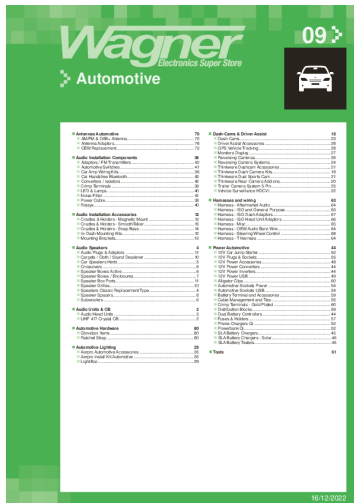
THINKWARE DASH CAM

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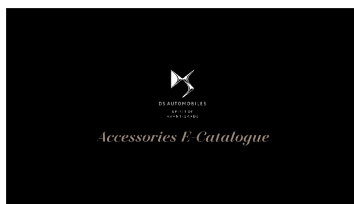
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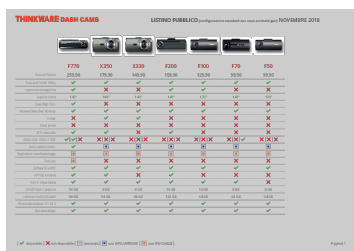
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