

# MANUFACTURING

Technology and quality as much as any third party may have a higher self-esteem.  
But, not satisfied with the current for greater customer satisfaction Invitational  
will continue to strive to develop new technologies promise.  
The best quality, best service, new product development under a management  
philosophy that Invi co. Is committed to innovation.

[www.hieltec.co.kr](http://www.hieltec.co.kr)



# GREETING

## Company Profile



We are greatly pleased to present our company introduction , which will help you gain a basic understanding of our core business activities.

As you will find out in the following pages, our business activities covers a Visual solution for Industrial camera.

We have been actively engaged in designing, manufacturing and constructing various cameras and modules for almost all industry.

We have been keeping an exceptional reputation and performance record for finished products and services provided to our customers around the world.

### OVERVIEW

CEO	Jin Sup, Yeom	Establish Date	August. 15th. 2006
Main task	<ul style="list-style-type: none"><li>➤ Produce &amp; develop camera &amp; module for vehicle</li><li>➤ Develop Electric components H/W, F/W</li><li>➤ Develop industrial controller</li></ul>		
Address	Head office : 1208, A dong, IT Valley 1045 Dangeongdong Gunposi Gyeonggi-do, South Korea Factory : 1201, 1208 A dong, IT Valley 1045 Dangeongdong Gunposi Gyeonggi-do, South Korea		
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# HISTORY

Company Profile

2012

- Exceed \$5 million for amount of exports
- Exported the rear view camera & side camera for car to Canada .
- Exported the rear view camera & side camera for car to Europe.

2008

- Launched the rear camera for car called “HCM-400”
- Established factory : registered “Viewland” as a trademark.
- Launched the rear camera for car called “HCM-50, HCM-1000”

2011

- Registered mid-sized businesses company which has Technological innovation certification.
- Certified promising & export firm
- Certified R&D institute.

2007

- Launched the rear camera for car called “HCM-300”

2010

- Registered as a venture business.
- Certified for R&D Unit.
- Launched the rear camera for car called “HCM-500”

2006

- Launched The rear camera for car called “HCM-200”
- Established HIELTEC Co., Ltd

2009

- Exported the rear view camera & side camera for car to Japan.
- Registered of design right no 30-0452801.
- Launched the rear camera for car called “HCM-70”
- Registered of design right no 30-0517290

# HISTORY

## Company Profile

2013

- Launched the rear camera for car called "HCR-100IR" "HCR-100PL"
- Certified E-mark, CE, FCC, IP69K for "HCR-100PL"

2014

- Supplied the commercial vehicles camera to HYUNDAI AUTOMOTIVE GROUP "HCR-100PL"

2015

- Launched the rear camera for car called "KPGS-C100" for Korean car. "JPGS-C100" for Japanese car.

2016

- Launched the rear camera for car called HCW-100 for commercial vehicles. (wireless system)

### Camera For Sedan

*Exported the rear view camera  
for car to **Europe** since 2012*

HCM-410N



HCM-550



### Camera For Sedan

*Exported the rear view camera  
for car to **Japan** since 2016*

HCM-700N



### Camera For Commercial Vehicle

*Supplied the commercial vehicles camera  
to **HYUNDAI MOTOR GROUP, SCANIA**  
Since 2014*

HCR-100PL  
(2 POWER LEDs)



### Camera For Commercial Vehicle

*Supplied the commercial vehicles camera  
to **DOOSAN HEAVY GROUP**  
since 2015*

HCR-100IR  
(10 IR LEDs)







## Camera For Sedan

### HCM – 410N



- High quality 1/4" CMOS SENSOR
- High sensitivity & high resolution : 380,000 Pixels
- Weather resistant Moisture proof & water proof (IP 67)
- Wide viewing angle : Angel : D159°, H 130°, V 98°
- Superior temperature durability : -30°C ~ 70°C
- 1 LUX under minimum illumination
- 1.0Vp-p Composite video out 75Ω Load
- Selectable display mirror / normal view
- 12 Volt DC operation
- Made of Zinc

### HCM – 700N



- Super Ultra compact size camera : W 23 x D23 x H25 mm
- High quality 1/4" CMOS image sensor
- High sensitivity & high resolution : 380,000 Pixels
- Weather resistant Moisture proof & water proof (IP 67)
- Wide viewing angle : D159°, H 130°, V 98°
- Superior temperature durability : -30°C ~ 70°C
- Superior voltage durability : power unit included
- Easy to install bracket.
- 1 LUX under minimum illumination
- 1.0 Vp-p Composite video out 75Ω Load
- 12 Volt DC operation
- Made of Aluminum





## Camera For Sedan

### HCM – 550



- 1/4" CMOS SENSOR
- High sensitivity & high resolution : 300,000 Pixels
- Weather resistant Moisture proof & water proof (IP 67)
- Wide viewing angle : Angel : D159°, H 120°, V 88°
- Superior temperature durability : -30°C ~ 70°C
- 1 LUX under minimum illumination
- 1.0Vp-p Composite video out 75Ω Load
- Selectable display mirror / normal view
- 12 Volt DC operation
- Made of Zinc



# Camera For Commercial Vehicles

## HCR – 100IR (IR LED) / Black and White Image



IR LED CAMERA

- Rating Voltage : DC12V~24V
- Operating Voltage : DC 5V~38V
- Consumption Current : 1.5W (DC12V)
- Image Sensor : "ISHCCD" 1/3" –Type Color CCD
- Lens : brightness F#2.0
- Effective Pixels : 520,000pixels 1020(horizontal) x 507(vertical)
- Resolution(horizontal) : 330TV over(middle part)
- Illumination range : 0.1Lx ~100,000 Lx
- Viewing Angel : 120 °(diagonal), 90 °(horizontal), 65 °(vertical)
- Video Output : CVBS(NTSC)
- Video Output Impedance : 75  $\Omega$ (1vp-p)
- Operating Temp(camera body) : -30°C ~ +85°C
- Storage Temp (camera body) : -40°C ~ +90 °C
- Water Proof : IP69 Certification
- Dimention (camera body) : (WxDxH) 79x44x44mm

## Structure Technology

- Perfect water and vibration resistance based on IP 69.
- Structure separation between camera and LED prevent heat and diffused reflection of LED light.
- Easy installation bracket.
- Anodized and powder-coated aluminum housing with stainless steel cap.
- LDR-controlled IR LEDs



# Camera For Commercial Vehicles

## HCR – 100PL (POWER LED) / Excellent Color Image



- Rating Voltage : DC12V~24V
- Operating Voltage : DC 5V~38V
- Consumption Current : 1.5W (DC12V)
- Image Sensor : "ISHCCD" 1/3" –Type Color CCD
- Lens : brightness F#2.0
- Effective Pixels : 520,000pixels 1020(horizontal) x 507(vertical)
- Resolution(horizontal) : 330TV over(middle part)
- Illumination range : 0.1Lx ~100,000 Lx
- Viewing Angel : 120 °(diagonal), 90 °(horizontal), 65 °(vertical)
- Video Output : CVBS(NTSC)
- Video Output Impedance : 75  $\Omega$ (1vp-p)
- Operating Temp(camera body) : -30°C ~ +85°C
- Storage Temp (camera body) : -40°C ~ +90 °C
- Water Proof : IP69 Certification
- Dimention (camera body) : (WxDxH) 79x44x44mm



DUAL LED CAMERA

## Structure Technology

- Perfect water and vibration resistance based on IP 69.
- Structure separation between camera and LED prevent heat and diffused reflection of LED light.
- Optional power LED number according to user or customer's preference
- Easy installation bracket.
- Anodized and powder-coated aluminum housing with stainless steel cap.



# Camera For Commercial Vehicles(Wireless System)

## HCW – 100 (A) / Integration Monitor



- Rating Voltage : DC12V~24V
- Operating Voltage : DC 5V~38V
- Consumption Current : 1.5W (DC12V)
- Image Sensor : "ISHCCD" 1/3" –Type Color CCD
- Lens : brightness F#2.0
- Effective Pixels : 520,000pixels 1020(horizontal) x 507(vertical)
- Resolution(horizontal) : 330TV over(middle part)
- Illumination range : 0.1Lx ~100,000 Lx
- Viewing Angel : 120 °(diagonal), 90 °(horizontal), 65 °(vertical)
- Video Output : CVBS(NTSC)
- Video Output Impedance : 75  $\Omega$ (1vp-p)
- Operating Temp(camera body) : -30°C ~ +85°C
- Storage Temp (camera body) : -40°C ~ +90 °C
- Water Proof : IP69 Certification
- Dimention (camera body) : (WxDxH) 79x44x44mm

## Monitor & A transmitter-receiver Specification (Wireless)

- Wireless Frequency Ranges : 2400MHz~2500MHz(2.4GHz~2.5GHz)
- Frequency Modulation : Adaptive Frequency Hopping
- Video Frame Rate, Resolution : 30 frame/sec 768\*494, 380,000pixel
- Video Output : NTSC
- Video Incording : MPGA4
- Rating Voltage : DC12V~24V, 0.2A@24V
- LCD : 7" TFT LCD (Resolution 800\*480 RGB)



# Camera For Commercial Vehicles(Wireless System)

## HCW – 100 (B) / Separate Monitor



- Rating Voltage : DC12V~24V
- Operating Voltage : DC 5V~38V
- Consumption Current : 1.5W (DC12V)
- Image Sensor : "ISHCCD" 1/3" –Type Color CCD
- Lens : brightness F#2.0
- Effective Pixels : 520,000pixels 1020(horizontal) x 507(vertical)
- Resolution(horizontal) : 330TV over(middle part)
- Illumination range : 0.1Lx ~100,000 Lx
- Viewing Angel : 120 °(diagonal), 90 °(horizontal), 65 °(vertical)
- Video Output : CVBS(NTSC)
- Video Output Impedance : 75  $\Omega$ (1vp-p)
- Operating Temp(camera body) : -30°C ~ +85°C
- Storage Temp (camera body) : -40°C ~ +90 °C
- Water Proof : IP69 Certification
- Dimention (camera body) : (WxDxH) 79x44x44mm

## Monitor & A transmitter-receiver Specification (Wireless)

- Wireless Frequency Ranges : 2400MHz~2500MHz(2.4GHz~2.5GHz)
- Frequency Modulation : Adaptive Frequency Hopping
- Video Frame Rate, Resolution : 30 frame/sec 768\*494, 380,000pixel
- Video Output : NTSC
- Video Incording : MPGA4
- Rating Voltage : DC12V~24V, 0.2A@24V
- LCD : 7" TFT LCD (Resolution 800\*480 RGB)

# Thank you.



**Hieltec Co., Ltd.**

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