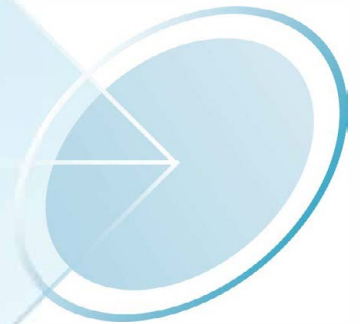




## Laser Scanning Production Display Module

### CONTACT US

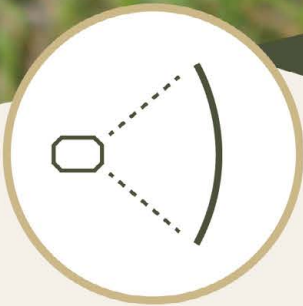
E-mail: [support@ultimems.com](mailto:support@ultimems.com)



# Only One Cable, Enlarge Your World

## AnyBeam UP

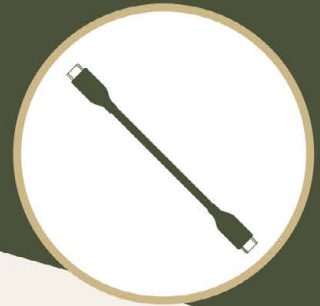
Beam you up



**Focus-free**  
Curved Surfaces Projectable



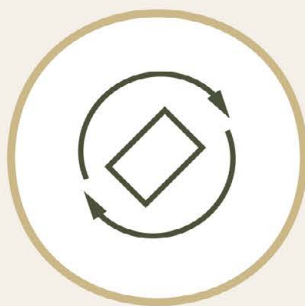
**Low Power-Consumption**  
Powered By Phone



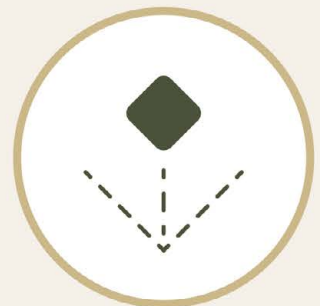
**Plug and Play**  
One Cable Does It All



**Auto Keystone Correction**



**Auto Flip**



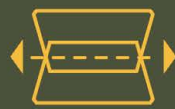
**Holographic Projection**



L: 10.6 \* D:6.5\* H : 2.6 cm



Combat Effectiveness



± 29°

AUTO  
Keystone

自動垂直梯形校正



AUTO  
Flip

自動畫面翻轉



Always in Sync

鏡像投影0延遲



TYPE-C  
Display Port

TYPE-C 影像輸入

34  
4K  
720p  
0.23  
1.5  
6.5

ANSI

Input  
輸入支援

Output:  
真實輸出

Kg  
公斤

Throw ratio  
投射比

Power  
Consumption  
最高耗電 (W)



Tactical Style  
Hardcase  
戰術保護硬盒



Tripod Ball Head  
with Clip  
多功能夾式雲台



100"  
screen size  
100" 畫面尺寸



TYPE-C  
> 5V 0.9A  
TYPE-C 電源輸入



Low Decibel  
無風扇無噪音



Focus Free  
無須對焦



Uneven Surface  
Projector  
不平整曲面投影

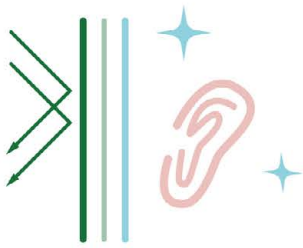


Low Power  
Consumption  
低耗電

# LASER SCANNING PROJECTION DISPLAY MODULE

## 0 dB

Fanless , Even Silent



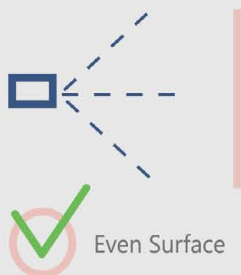
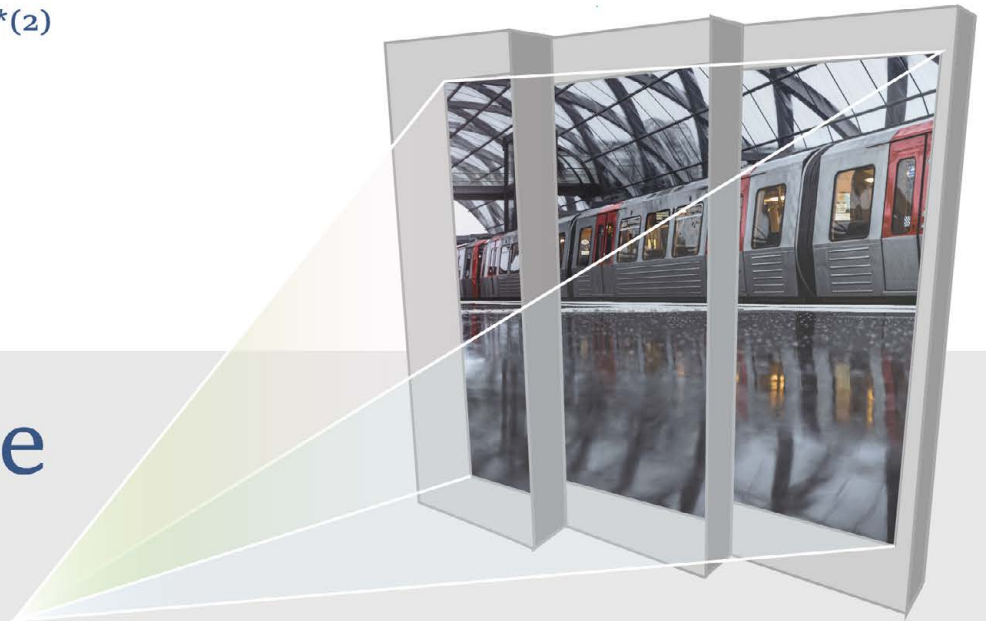
## 6W <

Low Power consumption <sup>\*(2)</sup>

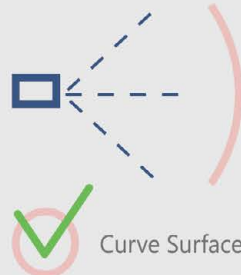


## Focus Free

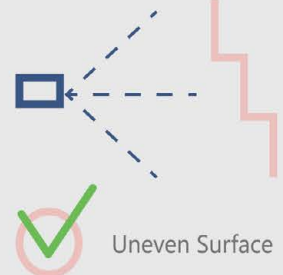
Always on focus.  
Uneven Surface Allow.



Even Surface



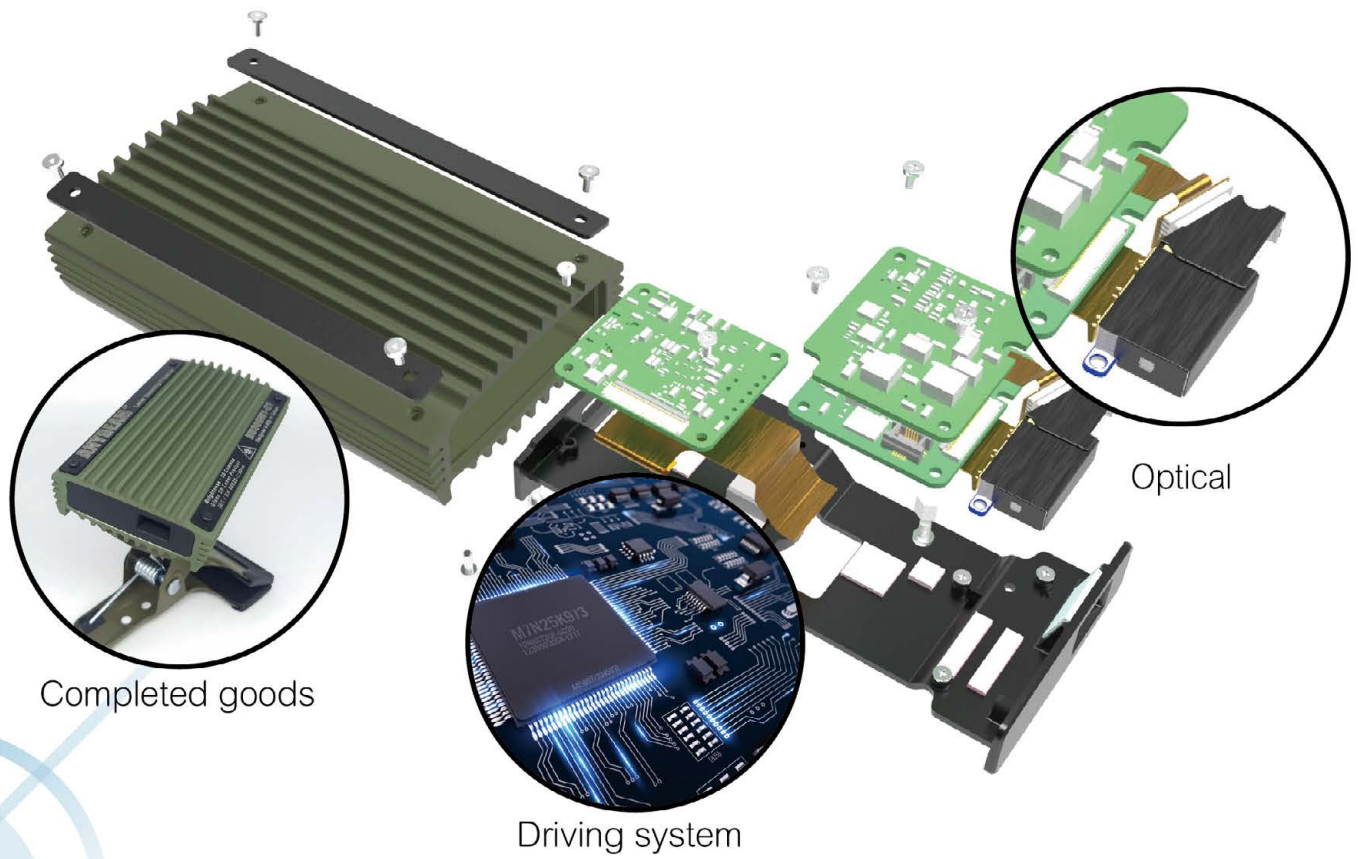
Curve Surface



Uneven Surface

<sup>\*(1)</sup> HDMI to MIPI / Type - C to MIPI Signal transferred Board / FPC are Optional

<sup>\*(2)</sup> Normal Operation



# What Ulitmems provides?

## Design

- (1) MEMS mirror / Video controller
- (2) Optical
- (3) Driving system
- (4) Calibration algorithm

## Module

- (1) Equipment for automatic testing / calibration
- (2) Assembly

## Completed goods

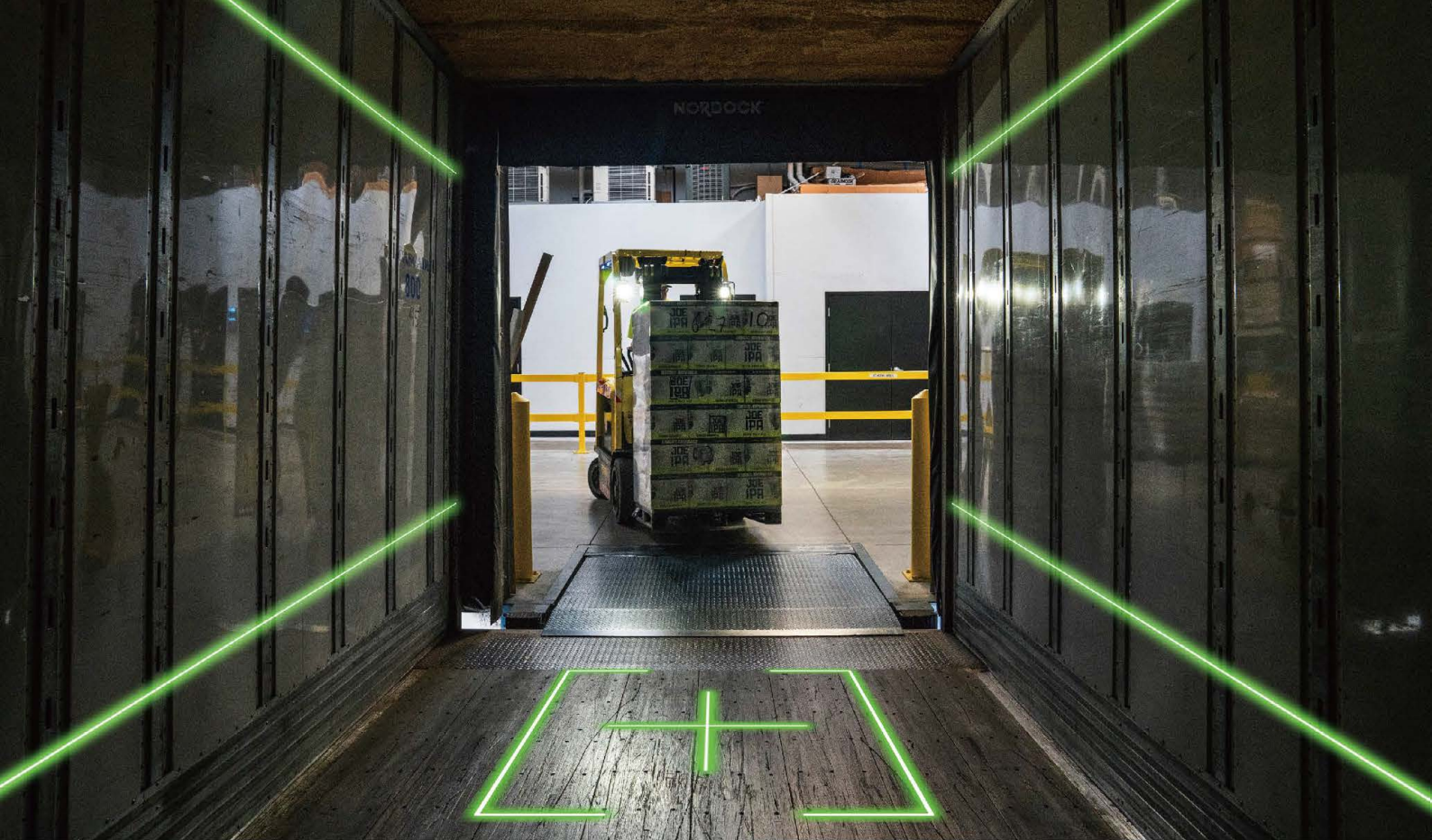
- (1) Assembly service

Module No. **HD309**  
 Class 3R Laser Product  
 Laser Scanning Production Display Module  
 34 ANSI

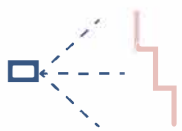


### Module with raster scan MEMS mirror\_Series

Module No.	Mirror type	Mirror size (mm)	Optical angle (Typ) Under close-loop	LD	Power consumption (Max) Power in & I/F	Others
HD106	UM-6002	1.2*1	Fast: +/-19 Slow: +/-11	R	3W; 5V/1.5A(Min); MIPI	Support MIPI /Line mode
HD303	UM-6002	1.2*1	Fast: +/-19 Slow: +/-11	RGB	4.5W; 5V/1.5A(Min); MIPI	Support MIPI mode
HD309	UM-6002	1.2*1	Fast: +/-19 Slow: +/-11	RGB	6.5W; 5V/1.5A(Min); MIPI	(1)Support MIPI mode (2)Mini version of HD303
HD506	UM-6002	1.2*1	Fast: +/-19 Slow: +/-11	RRG GB	7.5W; 5V/1.5A(Min); MIPI	Support MIPI mode



High Visibility



Focus Free  
Always on focus.  
Uneven Surface Allow.



Low Power  
consumption



Easy to Use

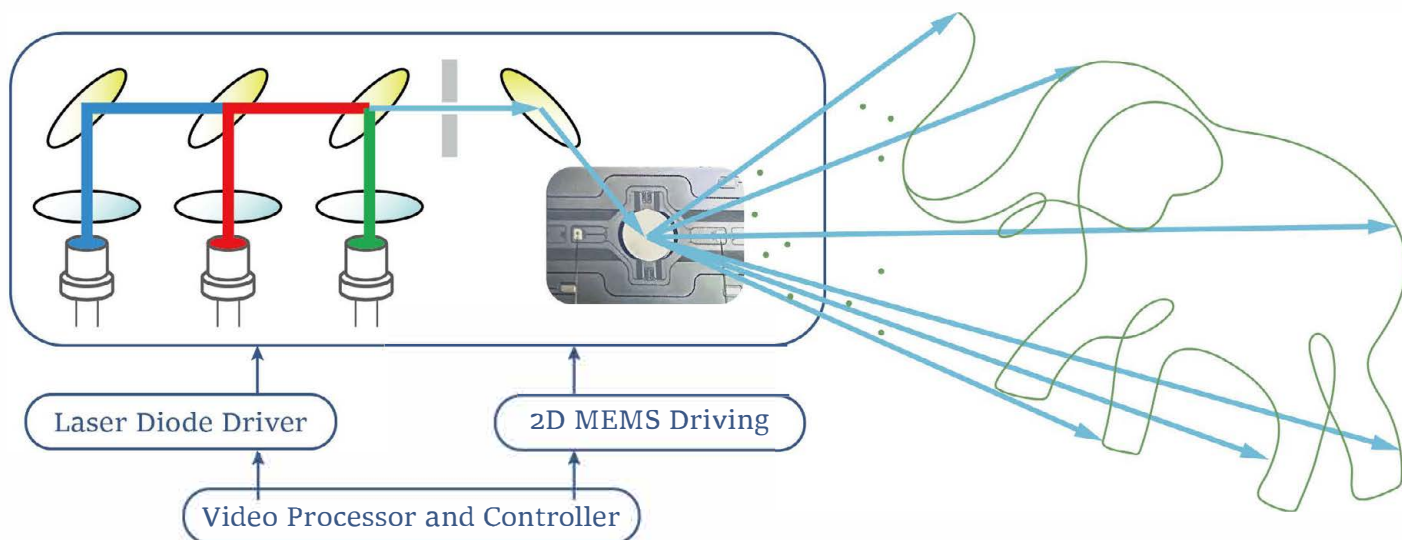


compact size



Content  
Diversification

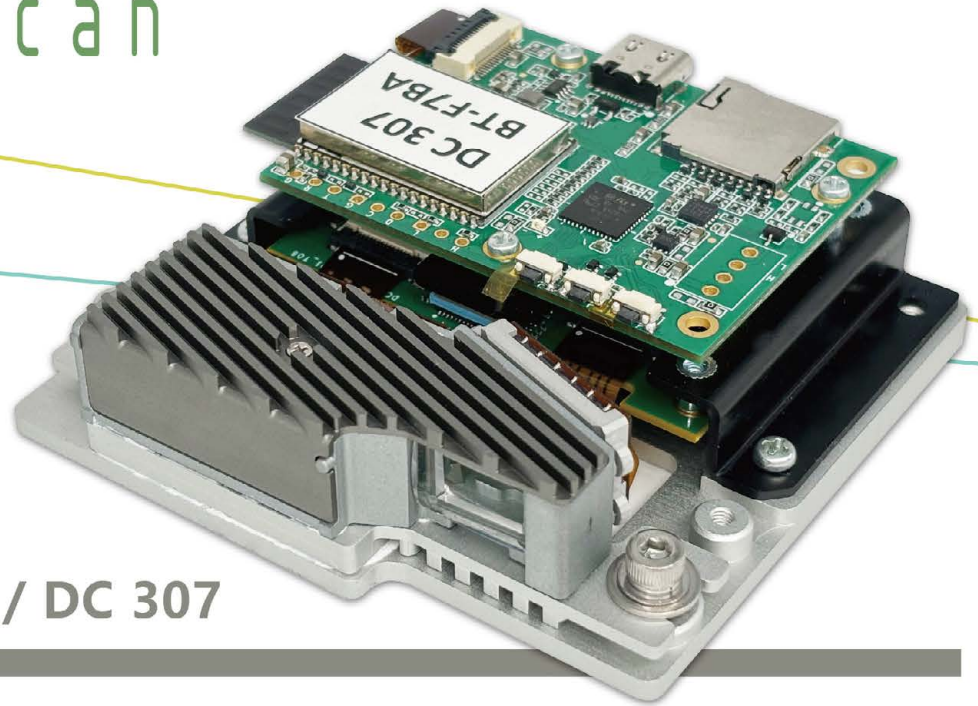
## Vector scan



### Module with linear scan MEMS mirror\_Series

Module No.	Mirror type	Mirror size (mm)	Optical angle (Typ) Under close-loop	Strobe Clock (Max)	LD	Power consumption (Max) Power in & I/F	Others
DC301	UM-6007	φ 2.3	Fast: + /-7 Slow: + /-7	30kHz	RGB	5W; 5V/1.5A (Min); USB Type-C	Support (1) ILDA file form at 0 & 5; (2) SD card slot.
DC302	UM-6010	φ 1.2	Fast: + /-7 Slow: + /-7	60kHz	RGB		

# Vector scan



DC 305 / DC 307

MEMS Mirror / Drive Force	2D single mirror / Electrostatics
Scanning System	60,000 points per second @ 11°
Scan Angle	11 x 11°
Contrast	10,000: 1 <FOFO test >
Focus	Free Focus
Brightness (Lumen)	50 lm
Color Gamut	>150%
Bluetooth	Bluetooth v4.2 BR/EDR and BLE specification
WiFi	802.11 b/g/n (802.11n up to 150 Mbps)
SD card support	Yes
Operation Temp	0° ~ 35°C
Power Input	DC 4.75V ~ 5.25V
Power Consumption	7W max
Relative Humidity	40~60%
Cleanliness Requirements	Under 10k (Fed -Std-209E)
Module Size	70 x 75 x 27 mm
Module Weight	140 ± 5 grams
Safety of Laser product	Class 3R Projector (Complies with IEC 60825 -1)