

PIXEL MAGO Canon version test report (sn 310105000068 firmware E7A 003)

Material used for test

Canon DSLR bodies : 5DMKII, 5D

Canon flash : 580EXII

Canon ST-E2 speedlite transmitter

Sekonic L-358 flashmeter

PixelKingPro wireless transmitters

Westcott Apollo softbox

User background

professional photographer

Using Canon DSLR since 2001 (Canon D30,10D,1D,1DMKII,5D,40D,5DMKII,5DMKIII)

web sites : <http://www.eventtography.com>

<http://www.happygraphy.com>

Findings (developed later)

GN equivalent as Canon 580EXII at 24 and 105 mm zoom position, lower by 2/3 stops at 50mm position

External power supply not compatible with Quantum Instruments Canon battery cables

Incompatibility with Canon STE2 wireless transmitter

Stroboscopic mode mentions up to 500 times on intro page 4 while LED menu provides 100x at 1Hz to 30x at 500 Hz (same as manual page 7)

No info for cable and external power supply part numbers in user manual

Test Protocol

Unpacking/User guide reading

Specifications and basic functions test

Stress test

Optical master/slave function test with Canon 580EXII and Canon STE2

LED function test with Pixel King Pro / Apollo soft box

Tests results

1) Unpacking/User guide

The flash is delivered in a quality packaging and bundled with a proper bag ,stand and light diffuser cap (stopen type), but no color gels .

Build quality and basic specifications are on par with Canon 580 EXII flash .

The feeling of a quality product is right there, with good finish, a metal flash foot with dust/water protection similar to Canon flash .

The user guide manual is thorough and easy to read, a nice improvement over the Pixel King Pro user manual with very small characters and succinct explanation .

Most functions on the flash are self explanatory and do not even need the user manual, apart perhaps for the wireless function which requires the wireless button to be pushed 1 second in order to activate the function.

The flash is equipped with a lock position.

The lcd display is very readable and the duration it is lit can be customized in order to preserve the batteries .

2) Specifications/basic functions test

As stated above, the flash main features are similar to Canon high end 580EXII.

It has notably :

- ETTL II support
- optical infrared wireless (4 channels/3 groups)
- manual flash from 1/1 to 1/128 in 1/3 stops increment
- 1st and second curtain sync,
- HSS sync
- external power supply socket *
- metal foot +dust/water cover protection
- horizontal swivel 180° both directions
- overheat protection circuit
- pc sync port

- and has some features that exceed it, notably :
 - zoom coverage 20-200 mm + 14mm vs Canon 580EXII 24-105 mm coverage
 - flash firmware can be upgraded via usb (located in battery housing)
 - most outstanding feature is the modeling light function (developed later) .
 - Very good ergonomoy/ user interface, much better than Canon 580EXII . The excellent user manual is almost not necessary to activate all flash functions
 - very good recycling time at full power (we measured 3 seconds, user manual states 4 seconds)

* external power supply :we could not actually test since it uses different cables than the Quantum Instruments cables that we use for our Quantum Turbo external batteries on a Canon 580 EXII european version.

Quantum or Godox Witstro, but with its modeling light that allows to pre-visualize where the light will hit, I see it as a very attractive part of my portable studio set as a hairlight for instance .

As a speedlight, it is 100% competitive with high end optical wireless speedlights as Canon 580EXII, at a fraction of the cost I suspect.

Other minor area of concern is full compatibility with Canon STE2 wireless transmitter, and compatibility of the external power supply socket with other brands cables .

Congrats to Pixel for this new product and many thanks for letting me test it .

Test summary

Packaging 5/5

Accessories 4/5 (no gels included)

Finish 5/5

Basic specs 4/5 (power socket compatibility)

Canon compatibility 4/5 (canon ste2 issues)

Special Functions 5/5 (led modeling light)
