



| | VIPER TTL | PIXEL KING PRO | VIPER TTL Advantages | PIXEL KING PRO Notable Differences |
|--|-------------|----------------|--|---|
| Separate transmitter | Yes | No | | |
| Separate receiver | Yes | Yes | | |
| Separate transceiver | No | Yes | The Viper TTL uses a dedicated transmitter and receiver | The camera mounted unit for the Pixel King Pro is a transceiver - it can act as a camera mounted Master transmitter, or act as a Slave receiver with a flash unit fitted to it |
| LCD orientation | Back facing | Back facing | | |
| Hot shoe lock | Wheel | Wheel | | |
| Transmitter AF assist lamp | No | No | | |
| Transmitter auto power off | No | No | | |
| Slave flash ready indicator on master | No | No | | |
| Number of off camera groups controlled | 3 | 3 | | |
| Group manual mode | Yes | Yes* | Operating mode can be set on a group by group basis for the Viper TTL or from the camera menu | *Operating mode cannot be set from the camera menu |
| Group TTL mode | Yes | Yes* | Operating mode can be set on a group by group basis from the Viper TTL or from the camera menu | *Operating mode cannot be set from the camera menu |
| Group Multi mode | Yes | No | The Viper TTL can remotely switch all groups into Multi mode and set the power, number of flashes and flash frequency remotely | The King Pro does not allow remote selection or control of Multi mode |
| Group Off mode | Yes | Yes | | |
| Operating mode on a group by group basis | Yes | Yes | | |
| Group ratio control | No | Yes | The Viper TTL does not have remote Ratio control of off camera groups | The King Pro allows Ratio control of groups A:B or A:B C |
| High speed sync | Yes | Yes* | High speed sync can be selected on the Viper TTL or on the camera menu | *High speed sync cannot be selected on the camera menu |
| Rear curtain sync | Yes | No* | Rear curtain sync can be switched in/out remotely using the Viper TTL | A Pixel training video for the X900 shows rear curtain sync being selected and an icon appearing on the transmitter LCD - the product literature says that rear curtain sync is supported, but the sample tested did not have RCS even when the latest firmware was downloaded from the Pixel site. |
| Flash exposure compensation adjust | Yes | No | FEC can be set on a group by group basis on the Viper TTL and on the camera menu | *On the camera menu, FEC can be selected but the value set applies to all groups - on the King Pro FEC can be set on a group by group basis |
| Flash exposure bracketing | Yes | Yes | From the camera menu | From the camera menu |
| Manual power level adjust | Yes | Yes* | Manual power level can be set on a group by group basis on the Viper TTL and on the camera menu | Manual power level cannot be set for any group from the camera menu |
| Facility to adjust all groups at the same time | Yes | No | On the Viper TTL, it is possible to adjust the manual power level or TTL FEC level of all three groups at the same time | |
| Slave remote zoom control | No | Yes | | |
| Custom functions menu | No | No | | |
| Personal functions menu | No | No | | |
| Pass through hotshoe | Yes | Yes | | |
| Group assignment for pass through flash unit | A | None | With the Viper TTL, a flash unit mounted on the transmitter pass through hot shoe is controlled from the Viper TTL, or from the camera menu as part of group A | With the King Pro, a flash mounted on the pass through hot shoe is not in a group and it cannot be controlled from the King Pro, or from the camera menu - it must be controlled locally at the flash gun |
| Powered by | 2 x AA | 2 x AA | | |
| USB firmware upgrade | Yes | Yes | | |
| USB powered | No | Yes | | The King Pro can be powered externally through its micro USB socket |
| Studio light trigger | Yes | Yes | | |
| Camera remote shutter trigger | Yes | Yes | | |
| Test button | Yes | Yes | | |
| Transmitter tripod mount | No | Yes | | |
| Receiver tripod mount | Yes | Yes | | |
| Number of radio channels | DCM | 15 + Auto | Modus DCM system gives more reliable 2.4GHz communication | |

Viper TTL



Competitor Comparison [Rollei Pro Transmitter 2.4G*]

| | VIPER TTL | Rollei Pro Transmitter 2.4G | VIPER TTL Advantages | ROLLEI PRO TX. 2.4G Notable Differences |
|--|-------------|-----------------------------|--|---|
| Separate transmitter | Yes | Yes | | |
| Separate receiver | Yes | Yes | | |
| Separate transceiver | No | No | | |
| LCD orientation | Back facing | Top facing | The Viper TTL transmitter is easily read in good position | The LCD on the Rollei unit is on top and not as easily read |
| Hot shoe lock | Wheel | Lever | | |
| Transmitter AF assist lamp | No | Yes | | The Rollei transmitter has a built in AF assist light matrix |
| Transmitter auto power off | No | No | | |
| Slave flash ready indicator on master | No | No | | |
| Number of off camera groups controlled | 3 | 4 | | |
| Group manual mode | Yes | Yes* | Operating mode can be set on a group by group basis from the Viper TTL or from the camera menu | *Operating mode cannot be set from the camera menu |
| Group TTL mode | Yes | Yes* | Operating mode can be set on a group by group basis from the Viper TTL or from the camera menu | *Operating mode cannot be set from the camera menu |
| Group Multi mode | Yes | Yes | | |
| Group Off mode | Yes | Yes | | |
| Operating mode on a group by group basis | Yes | Yes | | |
| Group ratio control | No | Yes | | The Rollei allows Ratio control of groups A:B or A:B:C |
| High speed sync | Yes | Yes | | |
| Rear curtain sync | Yes | Yes | | |
| Flash exposure compensation adjust | Yes | Yes* | FEC can be set on a group by group basis on the Viper TTL and on the camera menu | *On the camera menu, FEC can be selected but the value set applies to all groups - on the Rollei transmitter FEC can be set on a group by group basis |
| Flash exposure bracketing | Yes | Yes | From the camera menu | From the camera menu and on the transmitter |
| Manual power level adjust | Yes | Yes* | Manual power level can be set on a group by group basis on the Viper TTL and on the camera menu | Manual power level cannot be set for any group from the camera menu |
| Facility to adjust all groups at the same time | Yes | No | On the Viper TTL, it is possible to adjust the manual power level or TTL FEC level of all three groups at the same time | |
| Slave remote zoom control | No | No | | |
| Custom functions menu | No | Yes | | On the Rollei transmitter, it is possible to enable/disable flash exposure bracketing : enable/disable the AF assist light : set the FEB order |
| Personal functions menu | No | No | | |
| Pass through hotshoe | Yes | No | | |
| Group assignment for pass through flash unit | A | n/a | With the Viper TTL, a flash unit mounted on the transmitter pass through hot shoe is controlled from the Viper TTL, or from the camera menu as part of group A | |
| Powered by | 2 x AA | 2 x AA | | |
| USB firmware upgrade | Yes | No | | There is no future flexibility with the Rollei unit |
| USB powered | No | No | | |
| Studio light trigger | Yes | Yes | | |
| Camera remote shutter trigger | Yes | Yes | | |
| Test button | Yes | Yes | | |
| Transmitter tripod mount | No | No | | |
| Receiver tripod mount | Yes | No | | |
| Number of radio channels | DCM | 16 | Modus DCM system gives more reliable 2.4GHz communication | |

*The Rollei transmitter is to be available 5th - Dec. according to their website - the corresponding receiver is listed as "currently not available" - Rollei versions were checked



| | VIPER TTL | Yongnuo YN-E3-RT | VIPER TTL Advantages | YONGNUO YN-E3-RT Notable Differences |
|--|-------------|------------------|---|--|
| Separate transmitter | Yes | Yes | | |
| Separate receiver | Yes | Yes | | |
| Separate transceiver | No | No | | |
| LCD orientation | Back facing | Top facing | The Viper TTL transmitter is easily read in good position | The LCD on the Yongnuo unit is on top and not as easily read |
| Hot shoe lock | Wheel | Lever | | |
| Transmitter AF assist lamp | No | Yes | | The Yongnuo transmitter has a built in AF assist light matrix |
| Slave flash ready indicator on master | No | Yes | | The YN unit has a facility where on the transmitter LCD an icon switches on when remote off camera slave flash units are re-charged and ready to fire again after a shot - not clear how this works if a group has more than one flash gun in it |
| Number of off camera groups controlled | 3 | 5 | | |
| Group manual mode | Yes | Yes | | |
| Group TTL mode | Yes | Yes | | |
| Group Multi mode | Yes | Yes | | |
| Group Off mode | Yes | Yes | | |
| Operating mode on a group by group basis | Yes | Yes | | |
| Group ratio control | No | Yes | The Viper TTL does not have remote Ratio control of off camera groups | The Yongnuo allows Ratio control of groups A:B or A:B C |
| High speed sync | Yes | Yes | | |
| Rear curtain sync | Yes | Yes* | Rear curtain sync can be switched in/out remotely using the Viper TTL in Manual and TTL modes | The Yongnuo does not allow remote switching of rear curtain sync in TTL mode, only in Manual mode |
| Flash exposure compensation adjust | Yes | Yes | | |
| Flash exposure bracketing | Yes* | Yes | FEB from the camera menu only | FEB from the YN transmitter or from the camera menu |
| Manual power level adjust | Yes | Yes | | |
| Facility to adjust all groups at the same time | Yes | No | On the Viper TTL, it is possible to adjust the manual power level or TTL FEC level of all three groups at the same time | |
| Slave remote zoom control | No | No | | |
| Custom functions menu | No | Yes | | The YN transmitter has a number of custom settable parameters : power sleep time - modelling flash on/off - FEB auto cancel on/off - FEB order - Test - AF assist on/off - backlight timer - |
| Personal functions menu | No | Yes | | The YN unit has 2 other settable parameters - enable simple pop triggering - mask off some groups |
| Pass through hotshoe | Yes | No | | |
| Group assignment for pass through flash unit | A | n/a | | |
| Powered by | 2 x AA | 2 x AA | | |
| USB firmware upgrade | Yes | Yes | | |
| USB powered | No | No | | |
| Studio light trigger | Yes | Yes | | |
| Camera remote shutter trigger | Yes | Yes | | |
| Test button | Yes | Yes | | |
| Transmitter tripod mount | No | No | | |
| Receiver tripod mount | Yes | Yes | | |
| Number of radio channels | DCM | 15 + Auto | Modus DCM system gives more reliable 2.4GHz communication | |