AEC CASE STUDY
The new bridge in Valnerina
AEC LIGHTS UP THE NEW BRIDGE IN VALNERINA (ITALY) WITH XMOD PRO AND Q PRO.

The river Nera Valley crosses the two breathtaking Italian Regions of Marche and Umbria, from the Sibillini mountains to the city of Terni.

The new bridge is part of the national route S.S. 675 between Terni and Rieti, a few miles away from the famous Marmore waterfalls.

The bridge is a major work not only for the surrounding landscape but also for the new geometric configuration of the architectural structure and for the high value of the engineering solutions adopted in the design and construction phases.

The bridge is 300 meters long and 70 meters high with a supporting structure made of arch-shaped steel tubes with a diameter of 2.2 meters.

AEC lighting designers wanted to highlight the structure of the Arch Bridge and the street board all along its length. The luminaires chosen respected this idea and were positioned to simply the installation of the fittings themselves.

The project includes a mixed system of discharge and LED luminaires, in both cases the choice of an appropriate optic to highlight the structures without creating a uniform and flat effect was crucial.

The discharge luminaires with spot optics were installed at the base of the arch structure in order to benefit from the cylindrical shape and to better manage the light beam.

In addition to the supporting structures AEC has highlighted the outer edge of the road surface through the installation of the LED floodlights XMOD PRO mounted on a plate along the bridge border.
Following the floodlights used for the project:

**DISCHARGE FLOODLIGHTS**

- N.6 floodlights Q5 PRO SPOT HQI-T D 250W 5200K;
- N.4 floodlights Q5 PRO SPOT HQI-BT D 400W 5900K.

**LED FLOODLIGHTS**

- N.60 XMOD ST 4-2-18, 18 LED 2400lm 30W 4000K.

The different colour temperatures of the products allowed to slightly differentiate the lighting of the supporting structures and the street board.

The supporting structures have being lit with a higher colour temperature of 5200-5900K while the LED luminaires positioned on the board have a 4000K colour temperature with a whiter effect.