I.13.2.5 3D reference displays information SEI message semantics

When present, this SEI message shall be associated with an IDR access unit. A reference displays information message contains information about the reference display width(s) and reference viewing distance(s) as well as information about the corresponding baseline distance(s) and additional horizontal image shift(s), which form a stereo-pair for the reference display width and the reference viewing distance. This information enables a view renderer to produce a proper stereo-pair for the target screen width and the viewing distance. The reference display width and viewing distance values are signalled in units of centimetres. The reference baseline values shall be signalled in the same units as the x component of the translation vector in the ~~depth~~ multiview acquisition information SEI message that is valid for the same access unit. When a reference displays information SEI message is present in an access unit, the ~~depth~~ multiview acquisition information SEI message shall also be present in the same access unit. The baseline and shift information signaled for the reference display is valid for all access units they associated with and until the next IDR access unit or the next access unit containing ~~depth~~ multiview acquisition information SEI message or reference displays information SEI message.

Note 1

When camera parameters are updated by a ~~depth~~ multiview acquisition information SEI message in a following access unit and the baseline between the views used in the view synthesis process in the following access unit changes relative to that in the in the access unit which the reference displays information SEI belongs to, the baseline and the horizontal shift for the receiver's display in the following access unit should be modified accordingly.

The variables in the x column of Table I-3 are derived as follows from the respective variables or values in the s, e, and n~~, and v~~ columns of Table I-3 as follows.