

FrameMeta

Description: Contains metadata related to an individual exposure. A "Frame" refers to the collection of all images obtained by the 60 OTA devices in the camera in a single exposure. The camera configuration, telescope pointing, observation time, and astrometric solution from the detector focal plane (L,M) to the sky (RA,Dec) is provided.

Name	Unit	Data Type	Size	Default Value	Description
frameID	dimensionless	INT	4	NA	Unique frame/exposure identifier.
frameName	dimensionless	VARCHAR (32)	32	NA	Frame/exposure name provided by the camera software.
surveyID	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
filterID	dimensionless	TINYINT	1	NA	Filter identifier. Details in the Filter table.
ippChipID	dimensionless	INT	4	NA	IPP chipRun identifier.
ippCamID	dimensionless	INT	4	NA	IPP camRun identifier.
ippWarpID	dimensionless	INT	4	NA	IPP warpRun identifier.
cameraID	dimensionless	SMALLINT	2	NA	Camera identifier. Details in the CameraConfig table.
cameraConfig ID	dimensionless	SMALLINT	2	NA	Camera configuration identifier. Details in the CameraConfig table.
telescopeID	dimensionless	SMALLINT	2	NA	Telescope identifier.
analysisVer	dimensionless	VARCHAR (100)	100		IPP software analysis release version.
md5sum	dimensionless	VARCHAR (100)	100		IPP MD5 Checksum.
nOTA	dimensionless	SMALLINT	2	-999	Number of valid OTA images in this frame/exposure.
photoScat	magnitudes	REAL	4	-999	Photometric scatter relative to reference catalog across the full field of view.
nPhotoRef	dimensionless	INT	4	-999	Number of photometric reference sources.
expStart	days	FLOAT	8	-999	Modified Julian Date at the start of the exposure.
expTime	seconds	REAL	4	-999	Exposure time of the frame/exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
airmass	dimensionless	REAL	4	0	Airmass at midpoint of the exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
raBore	degrees	FLOAT	8	-999	Right ascension of telescope boresight.
decBore	degrees	FLOAT	8	-999	Declination of telescope boresight.
ctype1	dimensionless	VARCHAR (100)	100		Name of astrometric projection in right ascension.
ctype2	dimensionless	VARCHAR (100)	100		Name of astrometric projection in declination.
crval1	degrees	FLOAT	8	-999	Right ascension corresponding to reference pixel.
crval2	degrees	FLOAT	8	-999	Declination corresponding to reference pixel.
crpix1	focal plane pixels	FLOAT	8	-999	Reference pixel for right ascension.
crpix2	focal plane pixels	FLOAT	8	-999	Reference pixel for declination.
cdelt1	degrees /pixel	FLOAT	8	-999	Pixel scale in right ascension.
cdelt2	degrees /pixel	FLOAT	8	-999	Pixel scale in declination.
pc001001	dimensionless	FLOAT	8	-999	Linear transformation matrix element between focal plane pixel L and right ascension.
pc001002	dimensionless	FLOAT	8	-999	Linear transformation matrix element between focal plane pixel M and right ascension.
pc002001	dimensionless	FLOAT	8	-999	Linear transformation matrix element between focal plane pixel L and declination.
pc002002	dimensionless	FLOAT	8	-999	Linear transformation matrix element between focal plane pixel M and declination.

polyOrder	dimensionless	TINYINT	1	255	Polynomial order of astrometric fit between the detector focal plane and the sky.
pca1x3y0	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^3 y^0$) for right ascension.
pca1x2y1	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^2 y^1$) for right ascension.
pca1x1y2	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^1 y^2$) for right ascension.
pca1x0y3	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^0 y^3$) for right ascension.
pca1x2y0	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^2 y^0$) for right ascension.
pca1x1y1	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^1 y^1$) for right ascension.
pca1x0y2	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^0 y^2$) for right ascension.
pca2x3y0	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^3 y^0$) for declination.
pca2x2y1	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^2 y^1$) for declination.
pca2x1y2	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^1 y^2$) for declination.
pca2x0y3	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^0 y^3$) for declination.
pca2x2y0	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^2 y^0$) for declination.
pca2x1y1	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^1 y^1$) for declination.
pca2x0y2	dimensionless	FLOAT	8	-999	Polynomial coefficient for the astrometric fit component ($x^0 y^2$) for declination.
batchID	dimensionless	BIGINT	8	NA	Internal database batch identifier.
processingVersion	dimensionless	TINYINT	1	NA	Data release version.