# 2018-05-21 - HPOxygen Server 4.4.8

- Brightness metrics
   Changes in Default profile and new profile MyRound\_4.3\_2018-APR-26
- New limits in Presets for CrownPainting and PavilionPainting
- Updated GUI of Facet Marking panel
- Galahad1 improvements
- · Recognition metrics is improved

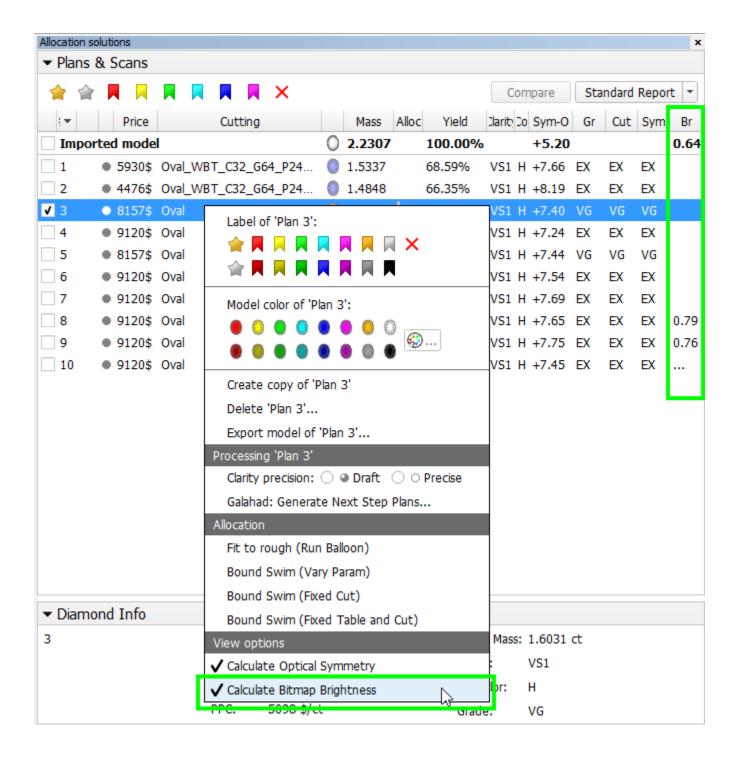
#### **Brightness metrics**

Calculation of metrics *Brightness* for scans&solutions is introduced in version 4.4.8.

Calculation is not active by default. To enable calculation, right click on any scan or solution and select Calculate Bitmap Brightness. Th program will start calculating the metrics for each scan and solution one by one. The values will appear in the Br. column.

While the calculation is in progress, the "..." mark will be shown in the "Br" column. Once calculated, the metrics is stored in the project and will not need to be recalculated if you save and reopen the project.

Calculation takes ~30-60 sec for one scan/solution.



### Changes in Default profile and new profile MyRound\_4.3\_2018-APR-26

**Default** profile has the following changes in parameters limits for EX: StarLength 67.5 57.5; LoweGirdleLength 67.5 72; Culet 1 0.2. These limits are more common in market and allow to get more beautiful round diamonds.

Cut Symmetry									
Parameter		[ FR	[ GD	[ VG	[ EX	EX]	VG ]	GD ]	FR]
Table	0	10	46,5	49,5	51,5	62,5	66,5	69,5	99
CrownAngle	0	10	21,75	26,25	31,25	36,75	38,75	40,25	90
PavilionAngle <b>①</b>		10	38,7	39,7	40,5	41,9	42,5	43,1	90
SweetLine		-9	-6	-3	-1,5	1,5	3	6	9
StarLength	0	10	32,5	37,5	42,5	57,5	72,5	77,5	90
LowerGirdleLength	0	50	57,5	62,5	72	87,5	92,5	97,5	99
GirdleBezel	0	0	1,25	1,75	2,25	4,75	5,75	7,25	20
GirdleValley <u>↓</u> †	0	0	0	0	0,75	2,94	4,14	6,14	20
CrownHeight	0	5	10,5	12	12,3	15,5	17,5	18,5	40
TotalHeight	0	10	54	57	58	62,5	64	66	90
Culet	0	0	0	0	0	0,2	1,5	2	20
CrownPainting	0	-9	-6	-3	-2,5	2,5	5	7	20
PavilionPainting	0	-9	-5	-3	-2,5	2,5	4	6	20
SumPainting	0	-9	-6	-5	-3,5	5	8	10	20
GirdleAngleMax	0	0	0	0	0	2	4	6	20
HeightGirdleExtraFacet	0	0	0	0	0	5	6	7	20
GirdleCrownExtraFacets		0	0	0	0	0	2	4	20
GirdlePavilionExtraFacets	0	0	0	0	0	1	2	6	20
GirdleExtraFacets	0	0	0	0	0	2	4	8	20

A new profile *MyRound\_4.3\_2018-APR-26* is added to program in the list of profiles. It is "read-only" profile like Default and not editable.



It has old limits for EX group which were in Default profile before this version:

ppraiser Editor ×											
GIA Facetware + MyRound  Profile: MyRound_4.3_2018-APR-26 (read only)  Show Presets											
Cut Symmetry											
Parameter	Grade	Value	[ FR	[ GD	[ VG	[ EX	EX ]	VG ]	GD ]	FR]	
Table <b>①</b>		EX	57.853	10	46,5	49,5	51,5	62,5	66,5	69,5	99
CrownAngle <b>①</b>		EX	36.188	10	21,75	26,25	31,25	36,75	38,75	40,25	90
PavilionAngle		EX	40.569	10	38,7	39,7	40,5	41,9	42,5	43,1	90
SweetLine	EX	0.194	-9	-6	-3	-1,5	1,5	3	6	9	
StarLength ①		EX	54.651	10	32,5	37,5	42,5	67,5	72,5	77,5	90
LowerGirdleLength ①		EX	74.372	50	57,5	62,5	67,\$	87,5	92,5	97,5	99
GirdleBezel		EX	4.18	0	1,25	1,75	2,25	4,75	5,75	7,25	20
GirdleValley <u>↓†</u>		EX	2.438	0	0	0	0,75	2,94	4,14	6,14	20
CrownHeight		EX	15.434	5	10,5	12	12,3	15,5	17,5	18,5	40
TotalHeight		EX	62.441	10	54	57	58	62,5	64	66	90
Culet	0	EX	0.00106	0	0	0	0	1	1,5	2	20
CrownPainting		EX	0.0928	-9	-6	-3	-2,5	2,5	5	7	20
PavilionPainting		EX	0.0916	-9	-5	-3	-2,5	2,5	4	6	20
SumPainting		EX	0.184	-9	-6	-5	-3,5	5	8	10	20
GirdleAngleMax		EX	0	0	0	0	0	2	4	6	20
HeightGirdleExtraFacet		EX	0	0	0	0	0	5	6	7	20
GirdleCrownExtraFacets		EX	0	0	0	0	0	0	2	4	20
GirdlePavilionExtraFacets		EX	0	0	0	0	0	1	2	6	20
GirdleExtraFacets	0	EX	0	0	0	0	0	2	4	8	20

Note that other profiles MyRound\_Profile1...MyRound\_Profile5 are still editable and user can set&save limits in these profiles by his own need.

## New limits in Presets for CrownPainting and PavilionPainting

There were too strict limits in Presets for CrownPaunting and PavilionPainting. Since this version program has more "open" limits to get more weight in SmartRecut solutions.

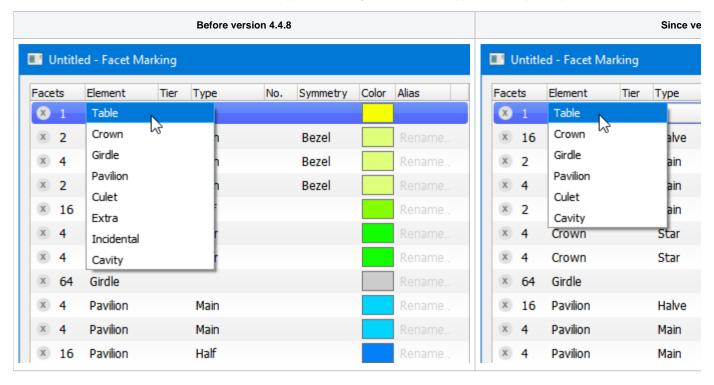
Before version 4.4.8

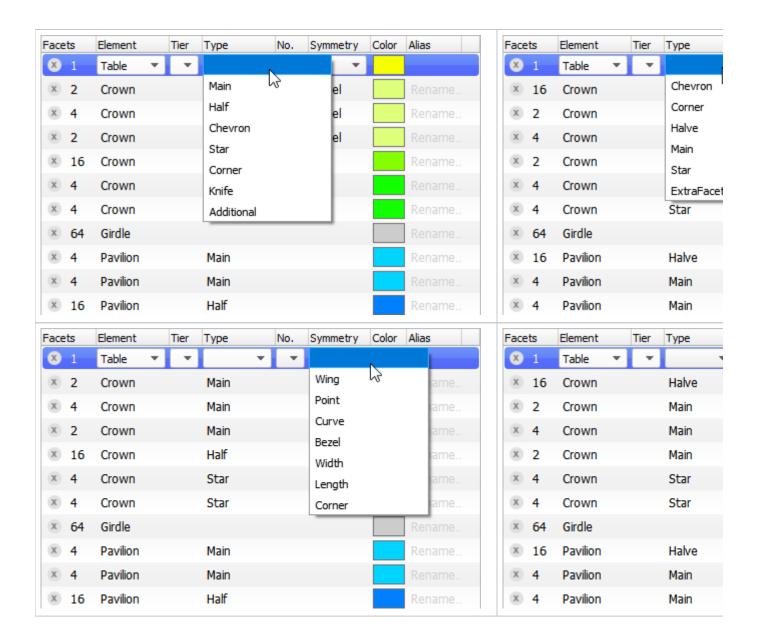
Cut	ymmetry	Other						Cut	Symmetry	Other	
Parameter EX ]								Parameter			
CrownPainting <b>1</b>				1				CrownPai	nting		
PavilionPainting <b>(1)</b>				1				PavilionPainting			
JltraSymm	OpticalSyr	mOpticalS <sub>1</sub>	alOptic	alSy <mark>5. Stan</mark>	dard xtended	Lin OpticalSyr	3. MaxMass	JltraSymm	OpticalSyr	n mOpticalS <sub>1</sub> a	
0,1	0,2	0,35	0,5	0,7	5 1	1	8	0,5	0,5	0,7	
0,1	0,2	0,35	0,5	0,7	5 1	1	8	0,5	0,5	0,7	

### Updated GUI of Facet Marking panel

Panel Facet Marking (shown by Custom report... in the right in Reports tab) has some GUI changes:

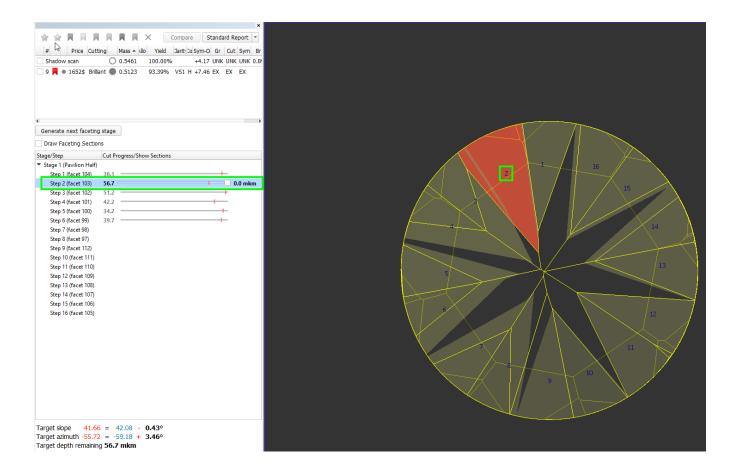
- Column "Symmetry" is renamed to "SubType";
- Columns "SubType" and "No." switch places;
- Elements "Extra" and "Incidental", type "Additional", subtype "Bezel" are deleted;
  Renames: Half Halve, Knife ExtraFacet in column Type, Corner Diagonal in column SubType (obsolete Symmetry).





#### Galahad1 improvements

- 5.1 Numeration of steps in facets on screen:
- 5.2. Facets of final result are highlighted by light yellow.



# Recognition metrics is improved

Recognition metrics (Model mismatch: X.XX%) in Import... dialog (Model matching preview) is improved.

Now it gives small values for good recognition of models from different stages of polishing (e.g. when one model is from a later stage with more facets polished).