2018-05-21 - HPOxygen Server 4.4.8

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.

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

▶ Inclusio	MyRound_Profile1
	MyRound_Profile2
▼ Active	MyRound_Profile3
	MyRound_Profile4
Appraiser:	MyRound_Profile5
Profile:	**MyRound_4.3_2018-APR-26**
Pricelist:	Default

(Hide Editor)

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

Appraiser 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	ⓘ	EX	57.853	10	46,5	49,5	51,5	62,5	66,5	69,5	99
CrownAngle	ⓘ	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	ⓘ	EX	54.651	10	32,5	37,5	42,5	67,5	72,5	77,5	90
LowerGirdleLength	ⓘ	EX	74.372	50	57,5	62,5	67,5	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 ↓↑	ⓘ	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	ⓘ	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	ⓘ	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	

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).

Before version 4.4.8	Since ve

Top-left panel

Facets	Element	Tier	Type	No.	Symmetry	Color	Alias
X 1	Table ▼	▼		▼		[yellow]	
X 2	Crown				...el		Rename..
X 4	Crown				...el		Rename..
X 2	Crown				...el		Rename..
X 16	Crown						Rename..
X 4	Crown						Rename..
X 4	Crown						Rename..
X 64	Girdle						Rename..
X 4	Pavilion		Main				Rename..
X 4	Pavilion		Main				Rename..
X 16	Pavilion		Half				Rename..

Type dropdown menu: Main / Half / Chevron / Star / Corner / Knife / Additional

Top-right panel

Facets	Element	Tier	Type
X 1	Table ▼	▼	
X 16	Crown		
X 2	Crown		
X 4	Crown		
X 2	Crown		
X 4	Crown		
X 4	Crown		Star
X 64	Girdle		
X 16	Pavilion		Halve
X 4	Pavilion		Main
X 4	Pavilion		Main

Type dropdown menu: Chevron / Corner / Halve / Main / Star / ExtraFacet

Bottom-left panel

Facets	Element	Tier	Type	No.	Symmetry	Color	Alias
X 1	Table ▼	▼	▼	▼			
X 2	Crown		Main				ame..
X 4	Crown		Main				ame..
X 2	Crown		Main				ame..
X 16	Crown		Half				ame..
X 4	Crown		Star				ame..
X 4	Crown		Star				ame..
X 64	Girdle						Rename..
X 4	Pavilion		Main				Rename..
X 4	Pavilion		Main				Rename..
X 16	Pavilion		Half				Rename..

Symmetry dropdown menu: Wing / Point / Curve / Bezel / Width / Length / Corner

Bottom-right panel

Facets	Element	Tier	Type
X 1	Table ▼	▼	▼
X 16	Crown		Halve
X 2	Crown		Main
X 4	Crown		Main
X 2	Crown		Main
X 4	Crown		Star
X 4	Crown		Star
X 64	Girdle		
X 16	Pavilion		Halve
X 4	Pavilion		Main
X 4	Pavilion		Main

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).